



REPORT

2021 Annual Groundwater Monitoring & Corrective Action Report

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

Submitted to:



Georgia Power

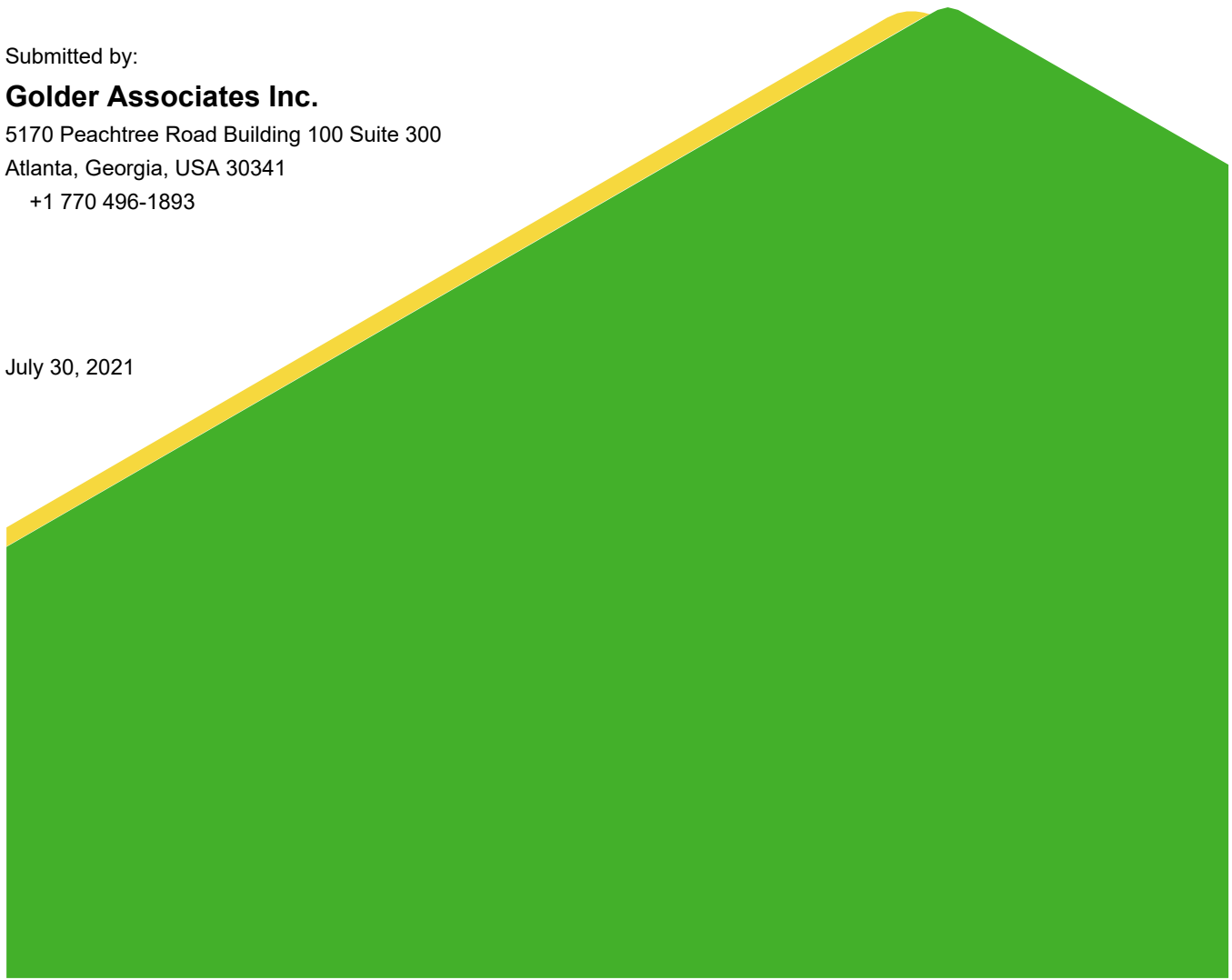
241 Ralph McGill Boulevard
Atlanta, GA 30308

Submitted by:

Golder Associates Inc.

5170 Peachtree Road Building 100 Suite 300
Atlanta, Georgia, USA 30341
+1 770 496-1893

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Summary

This summary of the *2021 Annual Groundwater Monitoring & Corrective Action Report* provides the status of groundwater monitoring and corrective action program from July 2020 through June 2021 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 Inc. (Golder) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. 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. Other CCR units (AP-1) on-site at Plant McDonough are reported separately.

Plant McDonough-Atkinson (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 Dr SE, Atlanta, GA 30339), the property occupies approximately 390 acres and is bounded on the southeast by the Chattahoochee River.

Groundwater at the Site is monitored using a monitoring system comprised of upgradient and downgradient wells for each CCR Unit. The AP-2 and 3/4 network consists of three (3) upgradient and twenty (20) downgradient wells installed to 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.



Plant McDonough

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 2021 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 unit.

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

2021 Annual Groundwater Monitoring Activities

There is no change to the AP-2 and 3/4 certified detection monitoring network in 2021. Groundwater monitoring sampling events for AP-2 and 3/4 were conducted in August 2020 (annual), September 2020 (semi-annual) and March 2021 (semi-annual) events. Groundwater samples were collected from 23 detection monitoring wells and 23 assessment monitoring wells and analyzed for Appendix III² and Appendix IV³ required monitoring parameters.

Analytical data from the March 2021 monitoring event has been statistically analyzed in accordance with the site's certified statistical analysis method. For the September 2020 and March 2021 semi-annual monitoring events, 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 as summarized below.

Appendix III Constituent	September 2020
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-12, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, 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
pH	DGWC-5, DGWC-9, DGWC-10, DGWC-17, 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-8, DGWC-9, DGWC-11, DGWC-12, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Appendix IV Constituent	September 2020
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48
Lithium	DGWC-47, DGWC-48
Appendix III Constituent	March 2021
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-12, 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-19, DGWC-20, DGWC-47, DGWC-48

² Appendix III: boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids

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

Appendix III Constituent	March 2021 - continued
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-12, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Appendix IV Constituent	March 2021
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-63, B-93
Lithium	DGWC-47, DGWC-48
Selenium	DGWC-9

The Appendix IV SSLs are horizontally delineated in site assessment wells for arsenic, beryllium, lithium, and selenium. Cobalt is horizontally delineated through surface water sampling downgradient of the site. Cobalt is not detected in the surface water downgradient of AP-2 and 3/4. Evaluation of vertical delineation for SSLs at AP-2 and 3/4 is ongoing. 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 Georgia EPD semi-annually.

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CERTIFICATION

This 2021 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company - Plant McDonough-Atkinson – Ash Pond 2 (AP-2), Ash Pond 3 (AP-3), and Ash Pond 4 (AP-4) has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 (6)(a-c) by a qualified groundwater scientist or engineer with Golder Associates Inc.

Golder Associates Inc.



Dawn L. Prell
Senior Consultant



Rachel P. Kirkman, PG Georgia
Professional Geologist No. 1756



Gregory L. Hebler, PhD, PE
Georgia Licensed Professional Engineer No. 034749

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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 *2021 Annual Groundwater Monitoring and Corrective Action Report* was prepared to document groundwater monitoring activities conducted at Georgia Power Company's (Georgia Power) Plant McDonough 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 activities conducted from July 2020 to June 2021 at AP-2 and AP-3/4. This report includes results from the annual monitoring for Appendix IV of 40 CFR 257 conducted in August 2020 and from both semi-annual monitoring events conducted in September 2020 and in March 2021 for AP-2 and AP-3/4.

1.1 Site Description and Background

Plant McDonough-Atkinson (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 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 from plant McDonough is ongoing, progress of CCR removal is shown on Figure 2.

Groundwater monitoring and reporting for AP-2 and AP-3/4 are being performed in order 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 AP-3/4. CCR impoundments AP-2 and AP-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 AP-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, 2020a).

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, 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 AP-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 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.

The certified monitoring well network for AP-2, and AP-3/4 consists of three (3) upgradient monitoring wells and twenty (20) downgradient monitoring wells. Table 1 includes well construction details for the multi-unit AP-2 and AP-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 performed at the Site from July 2020 through June 2021. Routine groundwater sampling was performed in August 2020, September 2020, and March 2021 in accordance with 40 CFR § 257.93.

2.1 Monitoring Well Installation and Maintenance

There was no change to the detection monitoring system for the reporting period. Additional delineation piezometers have been installed and incorporated as necessary into the assessment monitoring program (Table 1). Monitoring well related activities were limited to 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 inspection logs are included in Appendix A. During this reporting period (July 1, 2020 through June 30, 2021), additional piezometers were installed at the site on three different occasions to meet different objectives.

Two piezometers (B-99 and B-100) were installed in July 2020 to further define groundwater gradient and flow direction, and to characterize and horizontally delineate the nature and extent of select constituents in groundwater at the Site. The installation of these additional piezometers is documented in a report, *Piezometer Installation Report (B-99 through B-100)* (Golder, 2020b), a copy of which is included in Appendix B.

From October 2020 through November 2020, 11 piezometers (B-101D through B-111D) were installed to characterize and vertically delineate the nature and extent of select constituents in groundwater at the Site. Well development and slug testing of these vertical delineation piezometers were completed in January and April 2021, respectively. The installation of the vertical delineation piezometers is documented in a report, *Piezometer Installation Report (B-101D through B-111D)* (Golder, 2021a), a copy of which is included as Appendix B.

Eight additional piezometers were installed March through April 2021. These piezometers were installed to further characterize and vertically delineate the nature and extent of select constituents in groundwater at the Site. The installation of the vertical delineation piezometers is documented in a report *Piezometer Installation Report (B-112D through B-120D)* (Golder, 2021b).

The piezometers installed during this reporting period were surveyed by Metro Engineering and Surveying Company of McDonough, GA following installation. The top of the well casing and the survey pin installed at each well pad were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal locations (i.e., northings and eastings) were recorded in feet relative to the North American Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to North American Vertical Datum of 1988 (NAVD). Each of the well installation reports presents a summary of well construction for the new piezometers and presents the certified survey data and construction logs for each piezometer. The new survey data are incorporated into this report's applicable tables. The survey report is included in each of the well installation reports.

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 AP-3/4 in August 2020, September 2020, and March 2021. Samples were collected from each well in the certified monitoring network. The monitoring wells sampled included AP-2 and AP-3/4 monitoring wells presented in Table 1 as well as piezometers B-3, 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, B-116D, B-117D, B-118, B-119D, B-120D. (Figure 3A and 3B). Note, the assessment monitoring well network has been modified to include additional monitoring locations. The additional locations are reflected in Table 1; however, not all locations were sampled during the reported sampling events because installation and development occurred after the February 2021 sampling event. Table 2 presents a summary of groundwater sampling events completed for AP-2 and AP-3/4 and the status of the monitoring network.

During the August 2020 sampling event, groundwater samples were collected and analyzed for Appendix IV constituents to meet the requirement §257.95(b). During the September 2020 and March 2021 semi-annual sampling events, groundwater samples were collected for Appendix III parameters and those Appendix IV constituents detected in the August 2020 event. Results of sampling activities conducted in August 2020, September 2020, and March 2021, as well as additional delineation monitoring events conducted in 2021 are presented in Appendix A.

2.3 Additional Sampling

Additional sampling was conducted during the reporting period to further characterize and vertically delineate the nature and extent of select constituents in groundwater and in support of the assessment of corrective measures. Additional upgradient and delineation wells were installed between July 2020 and April 2021 and sampled as part of delineation activities. Additional piezometers include, B-56, B-62, B-63, B-66, B-77, B-83, B-88, B-92, B-93, B-97, B-98, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-111D, B-115D, B-116D, B-117D, B-118, B-119D, and B-120D. Upgradient monitoring wells B-116D, B-117D, B-118 and B-119D were sampled to characterize background conditions at the site and are being evaluated to update the statistical network. This additional sampling is further discussed in Section 5.0.

Due to the proximity of the Chattahoochee River in the downgradient direction of the wells showing 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 November 10, 2020, February 2, 2021, and March 9, 2021. The surface water samples collected in November 2020 were analyzed for beryllium, cobalt and major ions (magnesium, potassium and sodium). The surface water samples collected on February 2021 were analyzed for appendix III parameters, select appendix IV parameters (i.e., arsenic, beryllium, cobalt and molybdenum), and major ions (e.g., magnesium, potassium, sodium, total alkalinity, and bicarbonate). 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 (December 16, 2016). The laboratory reports associated with each of these sampling events are provided in Appendix A. Georgia Power will continue collecting the surface water samples semiannually.

On March 1, 2021, surface water samples were collected from the tributary to the Chattahoochee River east of AP-4. Specific sample locations include SW-1 through SW-4, as shown on Figure 3A. Samples were analyzed for Appendix III constituents.

Chemical analysis of soils/rock for Uranium-235, Uranium-238, Thorium-232, Thorium-235, and Radium 228 was completed as part of a radium source study to document the naturally occurring radium at the Site. Rock core samples from the screened intervals at B-104D, B-109D, B-111D, B-115D, B-116D, B-117D, and B-119D were submitted to Pace Analytical Laboratories of Peachtree Corners, GA for these analyses. Results of these analyses are presented in Appendix A. Preliminary evaluation of these data supports the presence of naturally-occurring radium at the site and an Alternate Source Demonstration will be prepared if an SSL of radium is identified once a sufficient number of samples have been collected to statistically analyze the results.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

Sampling events completed for AP-2 and AP-3/4 represent the annual Appendix IV monitoring event as well as the semi-annual assessment monitoring events for AP-2 and AP-3/4 as well as additional assessment monitoring

events at Plant McDonough. Groundwater analytical data and chain of custody records are presented in Appendix A. The following sections describe methods used to conduct groundwater monitoring at the site.

3.1 Groundwater Elevation Measurement

Prior to each scheduled sampling event in August 2020, September 2020, and March 2021 groundwater elevations were recorded at each monitoring well and piezometer. Groundwater elevation data are summarized in Table 3. Calculated water level data were used to develop Figures 4A, 4B, 4C and 4D. 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. Figure 4D presents an inset of the northeast portion of AP-3/4 and presents 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, creating a topographic low point and low hydraulic gradient. Backfilling of AP-2 is underway and is expected to be complete by Fall 2021. 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 August 2020, September 2020, and February 2021 from three 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 AP-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 7.70×10^{-4} centimeters/second (cm/s). An effective porosity of 0.20 (20%) for 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 is shown on Tables 4A, 4B, and 4C, respectively, for August 2020, September 2020, and February 2021.

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

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

Where:

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

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

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 August 2020, September 2020, and February 2021 groundwater elevation data. Tables 4A, 4B, and 4C presents the velocities calculated using groundwater elevation data from these sampling events.

Calculated (horizontal) flow velocities range from approximately 105 feet per year (ft/yr) to 110 ft/yr during the August 2020, September 2020 and February 2021 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:

- ±0.1 standard units for pH
- ±5% for specific conductance
- ±10% for DO where DO>0.5 milligrams per liter (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/AquaTroll, and chain-of-custody records are included in Appendix A.

Environmental monitoring field data sheets are included with the analytical reports in Appendix A. 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 during three groundwater compliance monitoring events (August 2020, September 2020, and March 2021) as well as additional assessment monitoring events conducted in November 2020, February 2021 and March 2021. During the August 2020 sampling event, wells were sampled and analyzed for Appendix IV monitoring parameters pursuant to 40 CFR § 257.95(b). The September 2020 and March 2021 sampling events represent semi-annual sampling events for AP-2 and AP-3/4. Because AP-2 and AP-3/4 is currently in assessment monitoring, groundwater samples from wells in the assessment monitoring program were analyzed for Appendix III and detected Appendix IV monitoring parameters per 40 CFR § 257 and § 261. Tables 5A through Table 5F present a tabulated summary of the August 2020, September 2020, and March 2021 detection and assessment sample results. Results of surface water samples collected in November 2020, February 2021, and March 2021 are presented on Tables 5G, 5H and 5I, respectively. Analytical methods used for monitoring parameters can be found in the analytical data reports in Appendix A.

Laboratory analyses for all events were performed by Pace Analytical Services, LLC (Pace) in Norcross, GA. 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 A.

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 20 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 A.

Groundwater quality data in this report were independently validated in accordance with US EPA Region IV Data Validation Standard Operating Procedures (US EPA, 2011), National Functional Guidelines for Inorganic Superfund Methods Data Review (January 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 A. 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 MDC (Minimum Detectable Concentration), the values are followed by a "U" flag in 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 AP-3/4. The statistical analysis report prepared by Groundwater Stats Consulting, LLC is presented in Appendix C.

4.1 Statistical Method

The selected statistical method for AP-2 and AP-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) document.

The following table provides a summary of the statistical methodology used at AP-2 and AP-3/4 for each of the semi-annual compliance monitoring events.

PLANT MCDONOUGH AP-2 and AP-3/4 STATISTICAL METHOD SUMMARY		
Monitoring Well Network	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, DGWC-48
	Assessment Monitoring Wells ^[1]	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, B-120D
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, TDS
	Appendix IV (Assessment Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium, Radium (226 + 228)
Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available.
	Statistical Limits	Interwell statistical limits will be applied on a constituent basis, depending on the appropriateness of the method as determined by the Analysis of Variance.
	Prediction Limits	Parametric when data follow a normal or transformed normal distribution and when less than 50% non-detects, utilizing Kaplan Meier non-detect adjustment when applicable; nonparametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.
	Confidence Intervals	Used in Assessment and Corrective Action monitoring.
	No Statistical Testing	Statistical testing is not required for parameters with 100% non-detects.
	Verification Resample Plan (Optional)	1-of-3 with minimum of 8 samples per well for interwell testing. <ul style="list-style-type: none"> ▪ Initial statistical exceedance warrants independent resampling within 90 days. ▪ If resample passes, well/parameter is not a confirmed SSI.

PLANT MCDONOUGH AP-2 and AP-3/4 STATISTICAL METHOD SUMMARY		
		<ul style="list-style-type: none"> ▪ If resample exceeds, well/parameter has a confirmed SSI. ▪ If no resample is collected, the original result is deemed verified.

Note:

[1] Additional assessment monitoring wells were added to the network after the sampling event took place (i.e., B-63, B-66, B-82, B-92, B-93, B-97, B-98, B-100, B-109D). Available data are included on Table 5F.

The following guidance are also applicable to the statistical analytical method:

- Statistical analyses are not performed on analytes containing 100% non-detects (US EPA Unified Guidance, 2009, Chapter 6).
- When data contain less than or equal to 15% no-detects in background, simple substitution of one-half the RL is utilized in the statistical analysis. The RL utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, a non-detect adjustment such as the Kaplan-Meier or Regression on Order Statistics (ROS) method for adjustment of the mean and standard deviation will be used prior to constructing a parametric prediction limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

4.1.1 Appendix III Detection Monitoring Statistical Methods

Appendix III statistical analyses 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 is 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). These criteria are not currently adopted by GA EPD.
- The respective background level for a constituent when the background level is higher than the MCL or rule identified GWPS.

US EPA revised the CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR § 257.95(h)(2). Presently those updated GWPS have not yet been incorporated in the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, under EPD rules, background concentrations are considered when determining the GWPS for constituents where an MCL has not been established (or where background is higher than the MCL). Under the existing 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 state rule requirements, GWPS were established for statistical comparison of Appendix IV constituents. Table 6 summarizes the background limit established at each monitoring well and the GWPS established under State and Federal rules.

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 established for both the State and Federal rules. 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 C. 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 2020 and March 2021 at AP-2 and AP-3/4 have been statistically analyzed in accordance with the site's certified Statistical Analysis Plan. Verification resampling to confirm initial SSIs was not performed; therefore, initial SSIs are considered verified. The statistical results are included in Appendix C.

4.2.1 September 2020 Appendix III Statistical Results

Based on the statistical results, SSIs of boron, calcium, chloride, fluoride, pH, sulfate and total dissolved solids were identified following the September 2020 assessment monitoring event. A detailed list of the noted exceedances is presented in Appendix C.

4.2.2 September 2020 Appendix IV Statistical Results

Analytical data from the September 2020 monitoring event at AP-2 and AP-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, 3/4 Confidence Interval Statistically Significant Level Exceedances	
Appendix IV Parameter	AP-2 and AP-3/4 Monitoring Well

Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48
Lithium	DGWC-47, DGWC-48

4.2.3 March 2021 Appendix III Statistical Results

Based on the statistical results (Appendix C), SSIs of boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids were identified following the March 2021 assessment monitoring event. A detailed list of the noted exceedances is presented in Appendix C.

Based on review of the Appendix III statistical analysis (Appendix C), Appendix III constituents have not returned to background levels and assessment monitoring should continue pursuant to 40 CFR 257.95(f).

4.2.4 March 2021 Appendix IV Statistical Results

Analytical data from the March 2021 monitoring event at AP-2 and AP-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, 3/4 Confidence Interval Statistically Significant Level Exceedances	
Appendix IV Parameter	AP-2 and AP-3/4 Monitoring Well
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-63, B-93
Lithium	DGWC-47, DGWC-48
Selenium	DGWC-9

5.0 ASSESSMENT MONITORING AND DELINEATION STATUS

Specific details regarding the delineation status at AP-2 and 3/4 is discussed in the *Semi-Annual Remedy Selection and Design Progress Report* (Appendix D). Limited groundwater analytical data are available for 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 many of the delineation wells, is limited to fewer than four independent datums and therefore not appropriate for statistical analyses.

Assessment monitoring data from the March 2021 monitoring event at AP-2 and 3/4 have been statistically analyzed in accordance with the certified statistical analysis method where sufficient data are available (B-62, B-63, B-93, and B-100 only). 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), there are no exceedances of the GWPS with the exception of cobalt at B-63 and B-93 as noted above.

As a conservative approach, Georgia Power elected to collect surface water samples from the Chattahoochee River to supplement horizontal delineation. Due to the proximity of the Chattahoochee River in the downgradient direction of the wells showing SSLs of cobalt (DGWC-19, DGWC-20, DGWC-47, DGWC-48, and B-63), installation of additional wells to horizontally characterize this area is infeasible. As such, surface water samples were collected from Chattahoochee River downgradient of AP-2 and 3/4 in November 2020 and again in February 2021 and March 2021. The cobalt SSL identified is horizontally delineated by surface water samples collected at CR-0.1 location and downstream locations (CR+0.2 and CR+0.4). The results from surface water samples as presented in Tables 5G and 5I, indicate that cobalt is not detected in the Chattahoochee River. Based on data collected to date, there are no impacts to surface water by constituents with SSLs at AP-2 and 3/4 at Plant McDonough and the horizontal delineation of target SSL constituents is complete. Evaluation of vertical delineation for SSLs at AP-2 and 3/4 is ongoing.

Additional sampling at wells assessment monitoring wells B-101D, B-102D, B-103D, B-104D, B-106D, B-107D, B-108D, B-109D, B-111S, B-115D, B-120D was conducted to support vertical delineation efforts during this reporting period.

Vertical delineation of constituents exceeding SSLs at AP-2 and 3/4 is in progress as the current Appendix IV dataset for the assessment monitoring wells is limited to less than four independent sampling events. Georgia Power will continue to monitor these wells until an adequate data set is available for analyses. Results of available data are included in Tables 5D through 5F.

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, lithium and molybdenum. 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, 2020c) and was incorporated into the ACM evaluation.

In accordance with 40 CFR § 257.97(a) a remedy selection report will be prepared and submitted concurrent with semi-annual groundwater monitoring reports to document results associated with additional data collection, and present progress toward selection and design of a groundwater remedy. A copy of the report is included as Appendix D. At least 30 days prior to the selection of remedy or remedies, a public meeting to discuss the results of the corrective measures assessment will be held pursuant to 40 CFR 257.96(e).

The *Semi-Annual Remedy Selection and Design Progress Report* that is included as Appendix D 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 groundwater protection standards 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 AP-3/4 confirms SSIs of Appendix III groundwater monitoring parameters above background and SSLs of Appendix IV groundwater monitoring parameter above the established GWPS. AP-2 and AP-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 *2021 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company Plant McDonough-Atkinson – Ash Pond 2 (AP-2), Ash Pond 3 (AP-3), and Ash Pond 4 (AP-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 interpreted during the August 2020, September 2020, and February 2021 events is consistent with historical evaluations and the monitoring well network continues to effectively monitor the uppermost aquifer beneath AP-2 and AP-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 the findings presented herein, Plant McDonough will continue with assessment groundwater monitoring and reporting. The next sampling event is tentatively scheduled for September 2021. The September 2021 semiannual assessment monitoring event will be a combined event to meet the requirements of 40 C.F.R. §257.95(b) and (d)(1) and will include sampling and analysis of all Appendix III and IV constituents.

9.0 REFERENCES

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Tables

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

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-37	Downgradient	Overburden	1390482.2	2200919.8	766.21	763.7	39.7	734.4	724.4	10	11/28/2012
DGWC-38	Downgradient	Overburden	1390362.7	2201148.6	757.43	754.7	25.0	740.0	730.0	10	11/29/2012
DGWC-39	Downgradient	Overburden	1390303.6	2201540.1	759.89	757.0	21.2	746.2	736.2	10	11/6/2012
DGWC-40	Downgradient	Overburden	1390625.7	2201825.9	779.06	776.2	34.9	751.7	741.7	10	11/5/2012
DGWC-67	Downgradient	Overburden	1390953.8	2200830.7	766.70	767.0	56.3	720.7	710.7	10	3/14/2017
DGWC-68A	Downgradient	Overburden	1391301.2	2200734.9	765.33	765.4	29.8	746.0	736.0	10	4/20/2017
DGWC-69	Downgradient	Overburden	1391585.0	2200657.1	763.75	764.0	24.3	749.7	739.7	10	3/16/2017
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK											
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-100	Downgradient	Overburden	1390254.8	2202242.1	777.95	775.3	44.8	740.5	730.5	10	7/8/2020
B-105D	Downgradient	Upper Bedrock	1390634.5	2201831.9	779.01	776.0	70.00	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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Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-2	Downgradient	Overburden/Upper Bedrock	1393958.0	2202119.5	850.88	848.3	49.0	809.6	799.6	10	10/2/2012
DGWC-4	Downgradient	Overburden	1394171.5	2202662.4	814.85	812.1	45.0	777.4	767.4	10	10/3/2012
DGWC-5	Downgradient	Overburden/Upper Bedrock	1394306.3	2202965.1	791.75	788.7	30.0	769.0	759.0	10	10/4/2012
DGWC-8	Downgradient	Overburden	1394322.2	2203882.1	826.38	824.1	49.1	785.4	775.4	10	10/10/2012
DGWC-9	Downgradient	Overburden	1394055.9	2204170.0	824.35	821.8	30.0	802.2	792.2	10	10/10/2012
DGWC-10	Downgradient	Overburden	1393818.3	2204201.1	823.55	820.9	45.4	785.9	775.9	10	10/11/2012
DGWC-11	Downgradient	Overburden	1393547.1	2204166.2	800.57	798.1	49.1	759.3	749.3	10	10/15/2012
DGWC-12	Downgradient	Overburden	1393149.4	2204128.3	773.86	771.2	25.1	756.5	746.5	10	10/15/2012
DGWC-13	Downgradient	Overburden	1392881.1	2204084.6	794.10	791.3	43.8	757.9	747.9	10	11/29/2012
DGWC-14	Downgradient	Overburden/Upper Bedrock	1392574.2	2204013.3	792.40	789.8	34.3	765.9	755.9	10	12/18/2012
DGWC-15	Downgradient	Overburden	1392544.1	2203679.0	824.50	821.5	67.1	764.8	754.8	10	11/29/2012
DGWC-17	Downgradient	Overburden	1392645.6	2203051.0	837.05	834.2	44.5	800.0	790.0	10	1/9/2013
DGWC-19	Downgradient	Overburden	1392342.6	2202601.0	825.46	822.9	39.8	793.5	783.5	10	3/12/2013
DGWC-20	Downgradient	Overburden	1392164.5	2202315.6	822.14	819.8	39.7	790.7	780.7	10	3/5/2013
DGWC-21	Downgradient	Overburden/Upper Bedrock	1392067.5	2202063.5	816.28	813.5	69.0	754.9	744.9	10	10/31/2012
DGWC-22	Downgradient	Upper Bedrock	1392126.3	2201791.9	816.59	813.7	60.0	764.0	754.0	10	10/25/2012
DGWC-23	Downgradient	Upper Bedrock	1392239.7	2201582.0	818.37	815.7	60.1	765.9	755.9	10	10/25/2012
DGWC-42	Downgradient	Overburden	1391327.8	2201870.2	804.68	802.0	50.4	762.1	752.1	10	11/12/2012
DGWC-47	Downgradient	Overburden/Upper Bedrock	1391553.8	2202610.5	797.45	794.3	28.8	775.9	765.9	10	6/23/2016
DGWC-48	Downgradient	Overburden/Upper Bedrock	1391314.6	2202290.2	788.33	785.2	30.0	765.6	755.6	10	6/22/2016

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 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK											
B-56	Downgradient	Overburden	1393957.9	2204187.8	823.59	821.0	45.0	786.4	776.4	10	10/3/2016
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-63	Downgradient	Overburden	1390999.1	2202978.1	777.10	777.3	46.0	741.8	731.8	10	10/6/2016
B-66	Downgradient	Overburden	1393858.2	2204277.5	815.90	813.3	55.3	768.3	758.3	10	11/16/2016
B-77	Downgradient	Overburden	1390948.7	2202942.0	776.86	777.1	42	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

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

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-3	Downgradient	Overburden/Upper Bedrock	1394045.1	2202411.5	837.78	835.0	37.0	808.3	798.3	10	10/3/2012
B-6	Downgradient	Overburden	1394419.5	2203266.5	789.47	786.5	35.4	761.5	751.5	10	10/9/2012
B-7	Downgradient	Overburden	1394374.6	2203596.1	809.16	806.1	25.2	791.3	781.3	10	10/9/2012
B-16	Downgradient	Overburden	1392595.1	2203315.4	826.47	823.6	43.7	790.2	780.2	10	12/19/2012
B-18	Downgradient	Overburden	1392521.0	2202875.5	826.56	823.9	32.6	801.5	791.5	10	1/10/2013
B-24	Downgradient	Upper Bedrock	1392479.9	2201450.0	822.11	819.3	79.1	751.0	741.0	10	10/24/2012
B-25	Downgradient	Upper Bedrock	1392813.3	2201502.7	836.54	833.5	54.8	789.1	779.1	10	10/24/2012
B-26	Downgradient	Upper Bedrock	1393105.6	2201550.4	853.60	850.6	49.3	811.7	801.7	10	10/23/2012
B-28	Downgradient	Overburden/Upper Bedrock	1391967.4	2201679.2	816.08	813.3	69.4	754.3	744.3	10	10/31/2012
B-29	Downgradient	Overburden	1391890.0	2201422.0	816.43	813.5	54.4	769.4	759.4	10	1/11/2013
B-31	Downgradient	Upper Bedrock	1392034.3	2200928.5	797.47	794.9	45.1	760.2	750.2	10	1/22/2013
B-41	Downgradient	Overburden	1390920.8	2201751.9	795.20	792.4	60.0	743.0	733.0	10	11/14/2012
B-50	Downgradient	Overburden	1391657.1	2201841.0	809.67	809.2	36.0	784.4	774.4	10	6/24/2016
B-51	Downgradient	Overburden	1390501.2	2200906.5	765.92	763.3	65.0	708.3	698.3	10	6/27/2016
B-52	Downgradient	Overburden	1392308.3	2201314.8	822.89	820.3	50.0	781.4	771.4	10	9/28/2016
B-54	Downgradient	Overburden/Upper Bedrock	1394423.5	2203140.7	785.46	782.6	34.2	758.8	748.8	10	9/26/2016
B-55	Downgradient	Overburden	1394142.6	2204147.9	825.12	822.9	52.0	781.9	771.9	10	9/22/2016
B-56	Downgradient	Overburden	1393957.9	2204187.8	823.59	821.0	45.0	786.4	776.4	10	10/3/2016
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-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016

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

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-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
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-90	Downgradient	Overburden	1394501.0	2203212.6	784.00	784.2	33.4	760.8	750.8	10	12/10/2019
B-91	Downgradient	Overburden	1394447.1	2203123.9	782.98	783.1	34.6	758.5	748.5	10	12/11/2019
B-94	Downgradient	Overburden	1394402.0	2203513.7	801.74	799.2	45.24	764.6	754.6	10	1/23/2020
B-95	Downgradient	Overburden	1394518.6	2203167.7	784.00	784.3	33.3	761.3	751.3	10	2/11/2020
B-96	Downgradient	Overburden	1394478.7	2203099.3	784.92	785.3	33.1	762.2	752.2	10	2/10/2020
B-99	Downgradient	Overburden	1394524.2	2203084.5	782.39	782.6	12.3	775.3	770.3	5	7/7/2020
B-103D	Downgradient	Upper Bedrock	1391543.5	2202614.4	795.96	793.8	70.00	733.8	723.8	10	10/15/2020

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

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-110D	Downgradient	Upper Bedrock	1391294.4	2200736.0	764.61	764.7	65.00	711.7	701.7	10	11/17/2020
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

Notes:

1. bgs = below ground surface
2. DGWC-68 and DGWA-70 are not used as monitoring well due to well replacement and modifications to the proposed well network. DGWA-70 was abandoned 5/1/2017.
2. Coordinate System: NAD 1983 State Plane Georgia West (U.S. feet)
3. 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
		August 2020	September 2020	March 2021	
Purpose of Sampling Event		Annual Appendix IV	Detection/ Assessment	Detection/ Assessment	
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) MONITORING WELL NETWORK					
DGWA-53	Upgradient	X	X	X	Assessment
DGWA-70A	Upgradient	X	X	X	Assessment
DGWA-71	Upgradient	X	X	X	Assessment
DGWC-2	Downgradient	X	X	X	Assessment
DGWC-4	Downgradient	X	X	X	Assessment
DGWC-5	Downgradient	X	X	X	Assessment
DGWC-8	Downgradient	X	X	X	Assessment
DGWC-9	Downgradient	X	X	X	Assessment
DGWC-10	Downgradient	X	X	X	Assessment
DGWC-11	Downgradient	X	X	X	Assessment
DGWC-12	Downgradient	X	X	X	Assessment
DGWC-13	Downgradient	X	X	X	Assessment
DGWC-14	Downgradient	X	X	X	Assessment
DGWC-15	Downgradient	X	X	X	Assessment
DGWC-17	Downgradient	X	X	X	Assessment
DGWC-19	Downgradient	X	X	X	Assessment
DGWC-20	Downgradient	X	X	X	Assessment
DGWC-21	Downgradient	X	X	X	Assessment
DGWC-22	Downgradient	X	X	X	Assessment
DGWC-23	Downgradient	X	X	X	Assessment
DGWC-42	Downgradient	X	X	X	Assessment
DGWC-47	Downgradient	X	X	X	Assessment
DGWC-48	Downgradient	X	X	X	Assessment
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) ASSESSMENT MONITORING WELL NETWORK					
B-56	Downgradient	X	X	X	Assessment
B-62	Downgradient	X	X	X	Assessment
B-63	Downgradient	X	X	X	Assessment
B-66	Downgradient	X	X	X	Assessment
B-77	Downgradient	X	X	X	Assessment
B-82	Downgradient	X	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
		August 2020	September 2020	March 2021	
Purpose of Sampling Event		Annual Appendix IV	Detection/ Assessment	Detection/ Assessment	
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) ASSESSMENT MONITORING WELL NETWORK					
B-83	Downgradient	X	X	X	Assessment
B-88	Downgradient	X	X	X	Assessment
B-92	Downgradient	--	--	X	Assessment
B-93	Downgradient	--	--	X	Assessment
B-97	Downgradient	--	--	X	Assessment
B-98	Downgradient	--	--	X	Assessment
B-100	Downgradient	--	--	X	Assessment
B-101D	Downgradient	--	--	X	Assessment
B-102D	Downgradient	--	--	X	Assessment
B-104D	Downgradient	--	--	X	Assessment
B-106D	Downgradient	--	--	X	Assessment
B-107D	Downgradient	--	--	X	Assessment
B-108D	Downgradient	--	--	X	Assessment
B-109D	Downgradient	--	--	X	Assessment
B-111D	Downgradient	--	--	X	Assessment
B-115D	Downgradient	--	--	X	Assessment
B-120D	Downgradient	--	--	X	Assessment

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

Well ID	Top of Casing Elevation (feet)	Groundwater Elevation (feet)		
		8/10/2020	9/21/2020	2/25/2021
ASH POND 1 (AP-1) MONITORING WELLS				
DGWA-53	844.26	829.41	830.68	830.64
DGWA-70A	808.52	768.95	762.11	769.85
DGWA-71	863.84	835.74	835.26	836.52
DGWC-37	766.21	752.13	752.92	752.94
DGWC-38	757.43	750.97	751.54	751.5
DGWC-39	759.89	751.21	752.88	753.22
DGWC-40	779.06	760.12	761.56	762.56
DGWC-67	766.70	756.40	757.31	757.18
DGWC-68A	765.33	755.00	755.53	755.45
DGWC-69	763.75	757.37	758.01	758.26
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) MONITORING WELLS				
DGWA-53	844.26	829.41	830.68	830.64
DGWA-70A	808.52	768.95	762.11	769.85
DGWA-71	863.84	835.74	835.26	836.52
DGWC-2	850.88	820.86	820.53	820.80
DGWC-4	814.85	791.48	791.43	791.90
DGWC-5	791.75	782.15	782.85	779.74
DGWC-8	826.38	793.33	793.57	792.07
DGWC-9	824.35	799.07	800.14	795.21
DGWC-10	823.55	791.09	793.53	796.18
DGWC-11	800.57	783.81	786.33	789.25
DGWC-12	773.86	763.51	765.13	765.16
DGWC-13	794.10	760.55	761.87	759.96
DGWC-14	792.40	771.30	771.31	772.54
DGWC-15	824.50	785.05	784.94	785.02
DGWC-17	837.05	804.92	804.51	804.28
DGWC-19	825.46	801.16	801.20	801.18
DGWC-20	822.14	798.00	799.24	800.57
DGWC-21	816.28	796.96	798.78	800.73
DGWC-22	816.59	796.03	796.29	797.81
DGWC-23	818.37	797.89	798.92	800.82
DGWC-42	804.68	772.46	769.51	775.11
DGWC-47	797.45	777.61	780.49	781.11
DGWC-48	788.33	771.83	772.89	774.58

TABLE 3
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 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well ID	Top of Casing Elevation (feet)	Groundwater Elevation (feet)		
		8/10/2020	9/21/2020	2/25/2021
PIEZOMETERS				
B-3	837.78	803.08	802.55	802.64
B-6	789.47	783.87	784.14	780.84
B-7	809.16	787.35	786.75	809.16
B-16	826.47	795.42	795.25	795.53
B-18	826.56	804.91	804.71	805.28
B-24	822.11	803.11	802.87	805.30
B-25	836.54	818.43	821.53	823.32
B-26	853.60	826.64	825.55	829.40
B-28	816.08	786.05	786.95	788.96
B-29	816.43	788.57	788.90	791.34
B-31	797.47	763.94	764.01	764.60
B-41	795.20	768.70	769.91	770.92
B-50	809.67	781.58	784.77	788.27
B-51	765.92	752.66	753.37	753.46
B-52	822.89	796.63	795.34	797.86
B-54	785.46	779.52	779.86	777.08
B-55	825.12	802.40	804.99	802.49
B-56	823.59	794.43	795.39	796.43
B-57	789.04	769.93	770.02	771.66
B-58	788.17	767.77	767.76	769.72
B-59	788.00	780.39	780.72	775.67
B-60	782.13	750.42	751.22	752.32
B-61	782.09	761.75	762.24	764.34
B-62	760.08	742.48	743.11	745.66
B-63	777.10	747.56	749.12	749.80
B-64	785.83	779.70	780.14	776.49
B-65	821.95	803.50	803.40	821.95
B-66	815.90	793.69	796.72	798.33
B-68	758.68	754.72	755.19	755.14
B-72	758.46	755.04	754.83	755.35
B-73	759.21	754.72	755.26	755.21
B-74	759.06	754.90	754.68	755.39
B-76	760.53	745.42	745.11	746.06
B-77	776.86	746.42	748.68	748.96
B-78	790.75	780.25	780.84	778.67
B-79	788.66	781.84	782.14	780.49
B-80	804.47	787.10	786.62	786.13

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

Well ID	Top of Casing Elevation (feet)	Groundwater Elevation (feet)		
		8/10/2020	9/21/2020	2/25/2021
PIEZOMETERS				
B-81	820.56	788.63	787.86	782.41
B-82	810.07	790.70	794.12	796.22
B-83	776.98	744.88	745.99	747.35
B-84	776.34	741.33	743.85	746.63
B-85	782.54	779.54	775.63	777.76
B-86	784.29	782.34	777.24	781.22
B-87	803.37	786.87	786.57	785.95
B-88	820.07	787.50	786.77	782.04
B-89	822.36	799.35	799.26	822.36
B-90	784.00	781.14	782.44	781.36
B-91	782.98	779.29	779.60	778.00
B-92	785.08	779.78	780.32	777.95
B-93	789.07	781.35	782.55	779.89
B-94	801.74	786.71	786.49	785.79
B-95	784.00	781.58	781.89	781.45
B-96	784.92	779.37	779.82	778.30
B-97	786.29	780.26	781.29	781.03
B-98	789.67	780.52	782.01	782.39
B-99	782.39	778.57	778.97	779.06
B-100	777.95	742.31	742.78	744.87
B-101D	824.29	--	--	793.26
B-102D	823.42	--	--	792.80
B-103D	795.96	--	--	783.50
B-104D	787.90	--	--	781.64
B-105D	779.01	--	--	762.82
B-106D	826.21	--	--	790.54
B-107D	823.38	--	--	801.98
B-108D	821.13	--	--	801.03
B-109D	850.73	--	--	812.13
B-110D	764.61	--	--	756.55
B-111D	791.87	--	--	781.12

Notes:

1. Elevation data recorded in feet North American Vertical Datum (NAVD)
2. N/A = Not Applicable
3. -- = Not yet constructed
4. Survey data for monitoring wells and piezometers provided by Metro Engineering.

TABLE 4A
GROUNDWATER VELOCITY CALCULATIONS - AUGUST 2020
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
 Atlanta, Georgia

Flow Paths	Groundwater Elevation (feet msl)	Δh (feet) ¹	Δl (feet) ²	Hydraulic Gradient ($\Delta h/\Delta l$) ³	Average Hydraulic Conductivity, K (centimeter per second) ⁵	Assumed Effective Porosity (n_e) ⁶	Average Linear Groundwater Velocity	
							(feet per day) ⁴	(feet per year) ⁴
ASH POND 2 AND ASH PONDS 3/4 (AP-2, 3/4)								
DGWA-53/DGWC-13	829.41	68.86	2550	0.027	0.00077	0.2	0.29	108
	760.55							
B-26/DGWC-48	826.64	54.81	2000	0.027	0.00077	0.2	0.30	109
	771.83							

Notes:

1. Δh = Change in groundwater elevation
2. Δl = 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 - SEPTEMBER 2020
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
 Atlanta, Georgia

Flow Paths	Groundwater Elevation (feet msl)	Δh (feet) ¹	Δl (feet) ²	Hydraulic Gradient ($\Delta h/\Delta l$) ³	Average Hydraulic Conductivity, K (centimeter per second) ⁵	Assumed Effective Porosity (n_e) ⁶	Average Linear Groundwater Velocity	
							(feet per day) ⁴	(feet per year) ⁴
ASH POND 2 AND ASH PONDS 3/4 (AP-2, 3/4)								
DGWA-53/DGWC-13	830.68	68.81	2550	0.027	0.00077	0.2	0.29	107
	761.87							
B-26/DGWC-48	825.55	52.66	2000	0.026	0.00077	0.2	0.29	105
	772.89							

Notes:

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

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

Flow Paths	Groundwater Elevation (feet)	Δh (feet) ¹	Δl (feet) ²	Hydraulic Gradient ($\Delta h/\Delta l$) ³	Average Hydraulic Conductivity, K (centimeter per second) ⁵	Assumed Effective Porosity (n_e) ⁶	Average Linear Groundwater Velocity	
							(feet per day) ⁴	(feet per year) ⁴
ASH POND 2 AND ASH PONDS 3/4 (AP-2, 3/4)								
DGWA-53/DGWC-13	830.64	70.68	2550	0.028	0.00077	0.2	0.30	110
	759.96							
B-26/DGWC-48	829.4	54.82	2000	0.027	0.00077	0.2	0.30	109
	774.58							

Notes:

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

TABLE 5A
ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - August 2020
 Georgia Power Company - Plant McDonough

Analyte	UNITS	Well ID													
		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	DGWC-15
		8/13/2020	8/11/2020	8/11/2020	8/11/2020	85/12/2020	85/12/2020	85/12/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020	85/12/2020	8/11/2020	8/13/2020
Appendix III															
BORON, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CALCIUM, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHLORIDE, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FLUORIDE, TOTAL	mg/L	0.062 J	<0.050	<0.050	<0.050	<0.050	0.13	0.056 J	1.3	1.4	<0.050	<0.050	0.051 J	<0.050	<0.050
pH	S.U.	6.17	5.86	5.96	6.04	5.93	4.84	5.36	4.00	4.92	5.68	5.69	5.68	5.73	6.58
SULFATE, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix IV															
ANTIMONY, TOTAL	mg/L	0.00030 J	0.0013 J	0.0018 J	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	0.00073 J
ARSENIC, TOTAL	mg/L	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.0020 J	<0.00078	0.022	0.0028 J	<0.00078	<0.00078	<0.00078	<0.00078	0.0013 J
BARIUM, TOTAL	mg/L	0.046	0.041	0.026	0.022	0.036	0.017	0.034	0.016	0.024	0.064	0.028	0.032	0.061	0.060
BERYLLIUM, TOTAL	mg/L	<0.000046	0.00013 J	0.00011 J	<0.000046	0.00024 J	0.0081	0.0018 J	0.0062	0.0066	0.00011 J	0.00024 J	0.000078 J	<0.000046	0.00022 J
CADMIUM, TOTAL	mg/L	<0.00012	<0.00012	<0.00012	<0.00012	0.00080 J	0.00079 J	0.0021 J	0.00059 J	0.00071 J	<0.00012	0.00038 J	<0.00012	<0.00012	0.00013 J
CHROMIUM, TOTAL	mg/L	<0.00055	0.0016 J	0.00060 J	0.00067 J	<0.00055	<0.00055	0.0028 J	0.00061 J	0.00097 J	0.00061 J	0.00094 J	0.00074 J	<0.00055	0.0048 J
COBALT, TOTAL	mg/L	0.0051	0.0012 J	<0.00038	0.0064	0.0018 J	0.021	0.053	0.22	0.11	0.00055 J	0.0060	<0.00038	<0.00038	0.0024 J
FLUORIDE, TOTAL	mg/L	0.062 J	<0.050	<0.050	<0.050	<0.050	0.13	0.056 J	1.3	1.4	<0.050	<0.050	0.051 J	<0.050	<0.050
LEAD, TOTAL	mg/L	<0.000036	0.00030 J	<0.000036	0.000064 J	<0.000036	0.000063 J	0.00070 J	<0.00018	0.00007 J	0.000053 J	<0.000036	<0.000036	0.000096 J	0.0012 J
LITHIUM, TOTAL	mg/L	0.0085 J	0.0019 J	0.0015 J	0.028 J	0.0031 J	0.0067 J	0.0058 J	0.032	0.0033 J	0.0028 J	0.0011 J	0.0034 J	0.0035 J	0.0089 J
MERCURY, TOTAL	mg/L	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	0.00017 J	0.000079 J	0.00026	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
MOLYBDENUM, TOTAL	mg/L	0.012	<0.00069	<0.00069	0.0020 J	0.0057 J	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	0.012	<0.00069	<0.00069
RADIUM (226 + 228)	pCi/L	1.04	0.812 U	0.965 U	1.37	1.95	1.13	0.721 U	0.819 U	1.45	1.02	0.770 U	1.63	1.17 U	3.58
SELENIUM, TOTAL	mg/L	<0.0016	<0.0016	<0.0016	0.0053 J	<0.0016	0.011	<0.0016	0.11	0.023	<0.0016	0.0019 J	0.0038 J	<0.0016	0.0018 J
THALLIUM, TOTAL	mg/L	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	0.00023 J	<0.00072	0.00037 J	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014

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.
5. "--" Sample not analyzed for this constituent.

TABLE 5A
ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - August 2020
 Georgia Power Company - Plant McDonough

Analyte	UNITS	Well ID								
		DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-42	DGWC-47	DGWC-48
		8/14/2020	8/11/2020	8/13/2020	8/14/2020	8/14/2020	8/13/2020	8/13/2020	85/12/2020	8/13/2020
Appendix III										
BORON, TOTAL	mg/L	--	--	--	--	--	--	--	--	--
CALCIUM, TOTAL	mg/L	--	--	--	--	--	--	--	--	--
CHLORIDE, TOTAL	mg/L	--	--	--	--	--	--	--	--	--
FLUORIDE, TOTAL	mg/L	0.069 J	0.20	0.90	<0.050	<0.050	0.10	<0.050	0.22	0.47
pH	S.U.	5.01	4.90	4.36	5.66	5.76	6.00	5.34	4.43	4.26
SULFATE, TOTAL	mg/L	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	mg/L	--	--	--	--	--	--	--	--	--
Appendix IV										
ANTIMONY, TOTAL	mg/L	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028
ARSENIC, TOTAL	mg/L	<0.00078	0.0014 J	0.014	<0.00078	<0.00078	<0.00078	<0.00078	0.00081 J	<0.00078
BARIUM, TOTAL	mg/L	0.046	0.027	0.019	0.027	0.035	0.027	0.027	0.016	0.013
BERYLLIUM, TOTAL	mg/L	0.00064 J	0.0020 J	0.0063	0.00020 J	0.00016 J	0.00041 J	0.0026 J	0.0068	0.0071
CADMIUM, TOTAL	mg/L	0.00029 J	0.00030 J	0.0021 J	0.00054 J	0.00057 J	0.00027 J	0.0013 J	0.0010 J	0.0028
CHROMIUM, TOTAL	mg/L	0.0033 J	0.0024 J	0.0023 J	<0.00055	<0.00055	0.00085 J	0.0021 J	<0.00055	<0.00055
COBALT, TOTAL	mg/L	0.026	0.049	0.73	0.0098	0.0087	0.00048 J	0.025	0.21	0.35
FLUORIDE, TOTAL	mg/L	0.069 J	0.20	0.90	<0.050	<0.050	0.10	<0.050	0.22	0.47
LEAD, TOTAL	mg/L	0.00017 J	0.000053 J	0.00044 J	<0.000036	<0.000036	<0.000036	0.0016 J	0.00040 J	0.00092 J
LITHIUM, TOTAL	mg/L	0.0015 J	0.0031 J	0.012 J	0.0058 J	0.0039 J	0.0052 J	0.011 J	0.054	0.098
MERCURY, TOTAL	mg/L	0.000098 J	<0.000078	<0.000078	<0.000078	<0.000078	0.00014 J	<0.000078	<0.000078	<0.000078
MOLYBDENUM, TOTAL	mg/L	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	0.013	<0.00069	<0.00069	<0.00069
RADIUM (226 + 228)	pCi/L	0.804 U	0.723 U	1.77	0.602 U	1.83	1.48 U	1.23 U	2.56	1.74
SELENIUM, TOTAL	mg/L	0.0084 J	0.0096 J	0.091	<0.0016	<0.0016	<0.0016	<0.0016	0.0020 J	0.0029 J
THALLIUM, TOTAL	mg/L	0.00019 J	0.00059 J	0.0016 J	<0.00014	<0.00014	<0.00014	<0.00014	0.00018 J	<0.00014

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.
5. "--" Sample not analyzed for this constituent.

TABLE 5B
ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - September 2020
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	Units	Well ID												
		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
		9/22/2020	9/22/2020	9/22/2020	9/23/2020	9/22/2020	9/22/2020	9/23/2020	9/22/2020	9/24/2020	9/22/2020	9/22/2020	9/23/2020	9/22/2020
Appendix III														
BORON, TOTAL	mg/L	0.056 J	< 0.0052	< 0.0052	0.57	4.3	4.6	1.0	0.78	0.45	1.3	4.2	0.57	0.086 J
CALCIUM, TOTAL	mg/L	15.5	5.0	5.4	44.4	263	99.2	39.3	54.7	53.1	72.7	55.4	39.0	11.6
CHLORIDE, TOTAL	mg/L	1.6	1.9	5.2	2.1	17.0	10.5	9.1	8.0	5.9	16.0	10.8	12.6	3.2
FLUORIDE, TOTAL	mg/L	0.099 J	< 0.050	< 0.050	< 0.050	< 0.050	0.12	< 0.050	0.99	0.97	< 0.050	< 0.050	0.058 J	< 0.050
pH	S.U.	6.43	6.01	6.06	5.99	5.88	4.83	5.21	4.00	4.89	5.54	6.00	5.72	5.70
SULFATE, TOTAL	mg/L	13.5	< 0.50	6.5	122	800	423	178	282	204	267	183	134	40.2
TOTAL DISSOLVED SOLIDS	mg/L	142	46.0	74.0	267	1400	716	333	461	283	481	338	278	105
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	0.0011 J
ARSENIC, TOTAL	mg/L	0.00093 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0062	< 0.00078	0.040	0.0078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
BARIUM, TOTAL	mg/L	0.070	0.038	0.024	0.023	0.030	0.017	0.025	0.015	0.021	0.058	0.036	0.030	0.060
BERYLLIUM, TOTAL	mg/L	< 0.000046	0.000068 J	0.000069 J	< 0.000046	0.00019 J	0.0081	0.0015 J	0.0049	0.0077	0.00015 J	0.00017 J	0.000068 J	< 0.000046
CADMIUM, TOTAL	mg/L	< 0.00012	< 0.00012	< 0.00012	0.00013 J	0.00065 J	0.00072 J	0.0018 J	0.00059 J	0.00055 J	0.00016 J	0.00017 J	< 0.00012	< 0.00012
CHROMIUM, TOTAL	mg/L	< 0.00055	0.00089 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00086 J	< 0.00055	0.0010 J	0.00058 J	< 0.00055	0.00059 J	< 0.00055
COBALT, TOTAL	mg/L	0.011	< 0.00038	< 0.00038	0.0062	0.0014 J	0.020	0.040	0.16	0.086	0.00098 J	0.013	0.00038 J	< 0.00038
FLUORIDE, TOTAL	mg/L	0.099 J	< 0.050	< 0.050	< 0.050	< 0.050	0.12	< 0.050	0.99	0.97	< 0.050	< 0.050	0.058 J	< 0.050
LEAD, TOTAL	mg/L	< 0.000036	0.000078 J	< 0.000036	0.000094 J	< 0.000036	0.000048 J	0.00011 J	0.00015 J	0.00013 J	0.00010 J	0.00011 J	0.000098 J	0.000044 J
LITHIUM, TOTAL	mg/L	0.0089 J	< 0.00081	0.0012 J	0.022 J	0.0026 J	0.0065 J	0.0045 J	0.025 J	0.0049 J	0.0019 J	< 0.00081	0.0033 J	0.0038 J
MERCURY, TOTAL	mg/L	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	0.00020 J	< 0.000078	0.00013 J	0.000081 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	0.039	< 0.00069	< 0.00069	0.0022 J	0.0028 J	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.012	< 0.00069
RADIUM (226 + 228)	pCi/L	2.27	0.450 U	0.216 U	1.96 U	1.43 U	1.40 U	0.800 U	1.15 U	1.39	0.502 U	0.515 U	0.935 U	1.20 U
SELENIUM, TOTAL	mg/L	< 0.0016	< 0.0016	< 0.0016	0.0046 J	< 0.0016	0.040	0.0028 J	0.23	0.074	< 0.0016	< 0.0016	0.0053 J	< 0.0016
THALLIUM, TOTAL	mg/L	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	0.00020 J	0.00043 J	0.00034 J	< 0.00014	< 0.00014	< 0.00014	< 0.00014

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 5B
ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - September 2020
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	UNITS	Well ID									
		DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-42	DGWC-47	DGWC-48
		9/23/2020	9/24/2020	9/22/2020	9/22/2020	9/24/2020	9/24/2020	9/24/2020	9/22/2020	9/23/2020	9/23/2020
Appendix III											
BORON, TOTAL	mg/L	1.6	0.88	2.6	4.9	6.1	4.1	4.6	0.88	0.21	0.65
CALCIUM, TOTAL	mg/L	35.6	12.7	103	79.2	80.0	62.6	73.7	43.8	22.3	72.2
CHLORIDE, TOTAL	mg/L	22.4	22.7	27.6	25.8	20.0	21.5	13.7	22.1	3.3	8.0
FLUORIDE, TOTAL	mg/L	< 0.050	0.056 J	0.084 J	0.15	< 0.050	< 0.050	0.075 J	< 0.050	0.11	0.32
pH	S.U.	5.85	5.10	4.91	4.66	5.64	5.69	6.19	5.76	4.40	4.64
SULFATE, TOTAL	mg/L	146	259	310	408	269	262	215	320	111	313
TOTAL DISSOLVED SOLIDS	mg/L	317	411	513	724	494	455	456	547	229	575
Appendix IV											
ANTIMONY, TOTAL	mg/L	< 0.00028	0.00045 J	0.00036 J	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	0.0012 J	0.00039 J
ARSENIC, TOTAL	mg/L	< 0.00078	0.0011 J	0.0017 J	0.0063	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
BARIUM, TOTAL	mg/L	0.043	0.033	0.026	0.011	0.024	0.031	0.020	0.016	0.014	0.013
BERYLLIUM, TOTAL	mg/L	0.000058 J	0.00060 J	0.0020 J	0.0027 J	0.00018 J	0.00017 J	0.00045 J	0.0013 J	0.0069	0.0072
CADMIUM, TOTAL	mg/L	< 0.00012	0.00024 J	0.00036 J	0.0014 J	0.00073 J	0.00058 J	0.00018 J	0.00070 J	0.0013 J	0.0025
CHROMIUM, TOTAL	mg/L	< 0.00055	0.0029 J	0.0030 J	0.0013 J	0.00096 J	< 0.00055	0.00084 J	0.0010 J	< 0.00055	< 0.00055
COBALT, TOTAL	mg/L	0.0018 J	0.028	0.051	0.47	0.010	0.010	< 0.00038	0.014	0.17	0.37
FLUORIDE, TOTAL	mg/L	< 0.050	0.056 J	0.084 J	0.15	< 0.050	< 0.050	0.075 J	< 0.050	0.11	0.32
LEAD, TOTAL	mg/L	0.000082 J	0.000079 J	0.00016 J	0.00013 J	0.00014 J	< 0.000036	< 0.000036	0.00074 J	0.00053 J	0.0010 J
LITHIUM, TOTAL	mg/L	0.0060 J	0.00096 J	0.0034 J	0.0026 J	0.0062 J	0.0037 J	0.0045 J	0.0099 J	0.046	0.10
MERCURY, TOTAL	mg/L	< 0.000078	0.000082 J	< 0.000078	< 0.000078	0.00012 J	< 0.000078	0.00020 J	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.0088 J	< 0.00069	< 0.00069	< 0.00069
RADIUM (226 + 228)	pCi/L	1.69 U	0.369 U	0.960 U	1.61 U	0.396 U	1.02 U	1.49	1.03 U	2.30 U	1.51 U
SELENIUM, TOTAL	mg/L	< 0.0016	0.015	0.0052 J	0.023	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.0016 J
THALLIUM, TOTAL	mg/L	< 0.00014	0.00018 J	0.00050 J	0.00055 J	< 0.00014	< 0.00014	< 0.00014	< 0.00014	0.00026 J	< 0.00014

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 5C
ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - March 2021
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	Units	Well ID												
		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
		3/12/2021	3/1/2021	3/1/2021	3/2/2021	3/1/2021	3/2/2021	3/2/2021	3/2/2021	3/2/2021	3/4/2021	3/2/2021	3/3/2021	3/2/2021
Appendix III														
BORON, TOTAL	mg/L	0.064	< 0.0052	0.0054 J	0.52	4.7	4.3	0.96	0.77	0.65	1.3	3.6	0.58	0.089
CALCIUM, TOTAL	mg/L	18.4	4.1	5.9	44.0	322	114	35.6	48.8	75.8	65.3	50.1	40.5	11.4
CHLORIDE, TOTAL	mg/L	2.0	1.9	3.9	2.1	15.0	9.8	8.6	8.4	7.2	14.4	10.3	13.1	3.5
FLUORIDE, TOTAL	mg/L	0.076 J	< 0.050	< 0.050	< 0.050	< 0.050	0.15	0.059 J	0.93	1.8	< 0.050	0.085 J	0.084 J	< 0.050
pH	S.U.	6.38	5.43	5.80	6.01	5.82	5.00	6.60	3.99	5.27	5.59	6.13	5.69	5.81
SULFATE, TOTAL	mg/L	8.8	< 0.50	5.2	112	840	412	152	266	240	250	203	131	42.6
TOTAL DISSOLVED SOLIDS	mg/L	124	25.0	62.0	241	1140	730	291	449	430	456	325	256	105
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00028	< 0.00028	0.0019 J	< 0.00028	0.00049 J	0.0015 J	0.00046 J	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
ARSENIC, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0013 J	< 0.00078	0.021	0.0060	< 0.00078	< 0.00078	< 0.00078	< 0.00078
BARIUM, TOTAL	mg/L	0.076	0.042	0.028	0.023	0.039	0.017	0.029	0.017	0.025	0.052	0.035	0.030	0.064
BERYLLIUM, TOTAL	mg/L	< 0.000046	0.00012 J	0.00011 J	< 0.000046	0.00027 J	0.0063	0.0012	0.0050	0.0086	0.00014 J	0.00011 J	0.000073 J	< 0.000046
CADMIUM, TOTAL	mg/L	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00085	0.00075	0.0017	0.00057	0.00088	0.00013 J	0.00016 J	< 0.00012	< 0.00012
CHROMIUM, TOTAL	mg/L	< 0.00055	< 0.00055	< 0.00055	0.00064 J	< 0.00055	< 0.00055	0.0015 J	0.00059 J	0.00090 J	< 0.00055	0.00099 J	< 0.00055	< 0.00055
COBALT, TOTAL	mg/L	0.0078	< 0.00038	< 0.00038	0.0055	0.0020 J	0.021	0.033	0.18	0.071	0.00065 J	0.010	< 0.00038	< 0.00038
FLUORIDE, TOTAL	mg/L	0.076 J	< 0.050	< 0.050	< 0.050	< 0.050	0.15	0.059 J	0.93	1.8	< 0.050	0.085 J	0.084 J	< 0.050
LEAD, TOTAL	mg/L	< 0.000036	< 0.000036	< 0.000036	0.00014 J	0.00012 J	0.000080 J	0.00027 J	0.00028 J	0.000092 J	< 0.000036	< 0.000036	< 0.000036	0.000083 J
LITHIUM, TOTAL	mg/L	0.0083 J	< 0.00081	0.0012 J	0.023 J	0.0035 J	0.0064 J	0.0046 J	0.028 J	0.0042 J	0.0017 J	< 0.00081	0.0033 J	0.0040 J
MERCURY, TOTAL	mg/L	< 0.000078	< 0.000078	0.000090 J	< 0.000078	< 0.000078	0.000094 J	< 0.000078	0.00017 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	0.018	< 0.00069	< 0.00069	0.0021 J	0.0051 J	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.011	< 0.00069
RADIUM (226 + 228)	pCi/L	1.63	0.552 U	0.389 U	1.54 U	1.05 U	0.971 U	0.751 U	1.29 U	1.48	0.666 U	1.85	1.12 U	0.861 U
SELENIUM, TOTAL	mg/L	< 0.0016	< 0.0016	< 0.0016	0.0037 J	< 0.0016	0.0081	< 0.0016	0.070	0.050	< 0.0016	< 0.0016	0.0060	< 0.0016
THALLIUM, TOTAL	mg/L	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	0.00019 J	< 0.00072	0.00042 J	< 0.00014	< 0.00014	< 0.00014	< 0.00014

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 Ash Ponds 3/4 - March 2021
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	UNITS	Well ID									
		DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-42	DGWC-47	DGWC-48
		3/2/2021	3/3/2021	3/2/2021	3/2/2021	3/3/2021	3/3/2021	3/3/2021	3/3/2021	3/3/2021	3/3/2021
Appendix III											
BORON, TOTAL	mg/L	1.4	0.71	2.3	3.4	5.3	3.9	4.0	0.87	0.17	0.57
CALCIUM, TOTAL	mg/L	36.0	14.3	93.2	74.7	82.1	62.3	68.1	38.8	25.5	66.0
CHLORIDE, TOTAL	mg/L	22.8	20.9	27.0	28.0	19.7	20.6	14.0	20.8	2.9	14.2
FLUORIDE, TOTAL	mg/L	< 0.050	0.085 J	0.19	1.4	< 0.050	< 0.050	0.063 J	< 0.050	0.71	0.67
pH	S.U.	5.81	5.23	4.84	4.45	5.63	5.71	5.85	5.30	3.98	4.14
SULFATE, TOTAL	mg/L	148	237	324	458	264	252	221	329	143	312
TOTAL DISSOLVED SOLIDS	mg/L	272	384	513	742	459	442	425	531	228	521
Appendix IV											
ANTIMONY, TOTAL	mg/L	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
ARSENIC, TOTAL	mg/L	< 0.00078	< 0.00078	0.0013 J	0.019	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
BARIIUM, TOTAL	mg/L	0.043	0.036	0.026	0.021	0.024	0.031	0.019	0.015	0.020	0.014
BERYLLIUM, TOTAL	mg/L	< 0.000046	0.00056	0.0019	0.0057	0.00017 J	0.00013 J	0.00050	0.0023	0.0081	0.0068
CADMIUM, TOTAL	mg/L	< 0.00012	0.00023 J	0.00035 J	0.0025	0.00044 J	0.00050	0.00015 J	0.00038 J	0.0016	0.0033
CHROMIUM, TOTAL	mg/L	< 0.00055	0.0028 J	0.0024 J	0.0022 J	0.0020 J	< 0.00055	0.0014 J	< 0.00055	< 0.00055	< 0.00055
COBALT, TOTAL	mg/L	0.0013 J	0.016	0.051	0.77	0.0087	0.0078	0.00039 J	0.0087	0.20	0.36
FLUORIDE, TOTAL	mg/L	< 0.050	0.085 J	0.19	1.4	< 0.050	< 0.050	0.063 J	< 0.050	0.71	0.67
LEAD, TOTAL	mg/L	< 0.000036	0.00015 J	0.000045 J	0.00047 J	< 0.000036	< 0.000036	< 0.000036	0.00024 J	0.00070 J	0.0011
LITHIUM, TOTAL	mg/L	0.0051 J	0.0011 J	0.0030 J	0.011 J	0.0054 J	0.0038 J	0.014 J	0.0079 J	0.049	0.096
MERCURY, TOTAL	mg/L	< 0.000078	< 0.000078	< 0.000078	0.000090 J	< 0.000078	< 0.000078	0.00033	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.0026 J	< 0.00069	< 0.00069	< 0.00069
RADIUM (226 + 228)	pCi/L	0.599 U	0.660 U	0.775 U	1.76	0.248 U	0.547 U	1.05 U	0.920 U	1.27 U	1.41
SELENIUM, TOTAL	mg/L	< 0.0016	0.0072	0.0091	0.078	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.0039 J	0.0025 J
THALLIUM, TOTAL	mg/L	< 0.00014	0.00017 J	0.00056 J	0.0014 J	< 0.00014	< 0.00014	< 0.00014	< 0.00014	0.00023 J	< 0.00014

- 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
Ash Pond 2 and Ash Ponds 3/4 - August 2020
 Georgia Power Company - Plant McDonough

Analyte	UNITS	Well ID						
		B-3	B-56	B-77	B-82	B-83	B-88	B-93
		8/17/2020	8/17/2020	8/13/2020	8/17/2020	8/14/2020	8/17/2020	8/19/2020
Appendix III								
BORON, TOTAL	mg/L	--	--	--	--	--	--	--
CALCIUM, TOTAL	mg/L	--	--	--	--	--	--	--
CHLORIDE, TOTAL	mg/L	--	--	--	--	--	--	--
FLUORIDE, TOTAL	mg/L	0.077 J	0.19	<0.050	<0.050	0.050 J	<0.050	0.32
pH	S.U.	5.51	4.82	6.14	5.48	5.59	5.76	4.78
SULFATE, TOTAL	mg/L	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	mg/L	--	--	--	--	--	--	--
Appendix IV								
ANTIMONY, TOTAL	mg/L	<0.00028	<0.00028	0.00043 J	<0.00028	<0.00028	<0.00028	<0.00028
ARSENIC, TOTAL	mg/L	<0.00078	0.0032 J	0.0020 J	<0.00078	<0.00078	<0.00078	0.0013 J
BARIUM, TOTAL	mg/L	0.026	0.030	0.11	0.024	0.056	0.022	0.018
BERYLLIUM, TOTAL	mg/L	0.0035	0.0013 J	0.00014 J	0.0014 J	0.00070 J	0.0014 J	0.015
CADMIUM, TOTAL	mg/L	0.00077 J	0.00029 J	<0.00012	0.00058 J	0.00037 J	0.0018 J	0.00077 J
CHROMIUM, TOTAL	mg/L	<0.00055	0.0014 J	0.0021 J	<0.00055	0.0050 J	0.0014 J	0.00057 J
COBALT, TOTAL	mg/L	0.061	0.042	0.0011 J	0.0028 J	0.021	0.0031 J	0.068
FLUORIDE, TOTAL	mg/L	0.077 J	0.19	<0.050	<0.050	0.050 J	<0.050	0.32
LEAD, TOTAL	mg/L	<0.000036	0.00022 J	0.0016 J	0.000059 J	0.00092 J	0.00081 J	0.00012 J
LITHIUM, TOTAL	mg/L	0.58	0.0056 J	0.0018 J	0.0016 J	0.0045 J	0.0060 J	0.011 J
MERCURY, TOTAL	mg/L	0.00010 J	0.00016 J	<0.000078	0.00011 J	<0.000078	0.00011 J	0.00026
MOLYBDENUM, TOTAL	mg/L	0.0015 J	<0.00069	<0.00069	<0.00069	<0.00069	0.0012 J	<0.00069
RADIUM (226 + 228)	pCi/L	1.78 U	1.15 U	2.17	0.662 U	0.950 U	2.47	1.19 U
SELENIUM, TOTAL	mg/L	0.0021 J	0.011	<0.0016	<0.0016	0.015	0.0017 J	0.018
THALLIUM, TOTAL	mg/L	<0.00014	0.00016 J	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014

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.
5. Not Sampled - Sample not analyzed for this constituent.

TABLE 5E
ASSESSMENT MONITORING ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - September 2020
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	Units	Well ID						
		B-3	B-56	B-77	B-82	B-83	B-88	B-93
		11/11/2020	9/28/2020	9/24/2020	9/28/2020	9/25/2020	9/25/2020	9/28/2020
Appendix III								
BORON, TOTAL	mg/L	2.6	1.4	0.27	1.1	0.35	1.8	3.0
CALCIUM, TOTAL	mg/L	147.000	15.1	17.9	26.5	39.8	79.8	110
CHLORIDE, TOTAL	mg/L	Not Sampled	8.7	5.3	9.9	3.0	10.0	10.8
FLUORIDE, TOTAL	mg/L	Not Sampled	0.098 J	< 0.050	< 0.050	< 0.050	< 0.050	0.30
pH	S.U.	5.420	4.90	6.46	5.54	5.97	5.75	4.67
SULFATE, TOTAL	mg/L	Not Sampled	211	2.9	287	107	344	419
TOTAL DISSOLVED SOLIDS	mg/L	Not Sampled	320	124	454	244	624	686
Appendix IV								
ANTIMONY, TOTAL	mg/L	< 0.00028	< 0.00028	0.00036 J	< 0.00028	< 0.00028	< 0.00028	0.0014 J
ARSENIC, TOTAL	mg/L	< 0.00078	0.0047 J	0.0025 J	< 0.00078	< 0.00078	< 0.00078	0.0027 J
BARIIUM, TOTAL	mg/L	0.027	0.026	0.12	0.023	0.027	0.021	0.017
BERYLLIUM, TOTAL	mg/L	0.0028J	0.0012 J	0.000053 J	0.0015 J	0.00028 J	0.00063 J	0.015
CADMIUM, TOTAL	mg/L	0.00069J	0.00024 J	< 0.00012	0.00066 J	0.00026 J	0.00022 J	0.00074 J
CHROMIUM, TOTAL	mg/L	0.00068J	< 0.00055	0.00070 J	< 0.00055	0.0051 J	0.00085 J	0.00066 J
COBALT, TOTAL	mg/L	0.049	0.042	0.00040 J	0.0053	0.0073	0.0015 J	0.064
FLUORIDE, TOTAL	mg/L	Not Sampled	0.098 J	< 0.050	< 0.050	< 0.050	< 0.050	0.30
LEAD, TOTAL	mg/L	0.000093J	0.000091 J	0.00021 J	0.00011 J	0.000065 J	0.00035 J	0.00012 J
LITHIUM, TOTAL	mg/L	0.610	0.0050 J	0.00095 J	0.0010 J	0.0018 J	0.0016 J	0.011 J
MERCURY, TOTAL	mg/L	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	0.00024 J
MOLYBDENUM, TOTAL	mg/L	0.0017J	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.0012 J	< 0.00069
RADIUM (226 + 228)	pCi/L	Not Sampled	1.39	0.761 U	0.747 U	0.0359 U	0.925 U	1.54
SELENIUM, TOTAL	mg/L	0.0039J	0.029	< 0.0016	0.0021 J	0.019	0.0033 J	0.036
THALLIUM, TOTAL	mg/L	< 0.00014	0.00023 J	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014

Notes:

1. mg/L - Milligrams per Liter; pCi/L -
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.
5. Not Sampled - Sample not analyzed for this constituent.

TABLE 5F
ASSESSMENT MONITORING ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - March and April 2021
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	Units	Well ID										
		B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
		3/3/2021	3/12/2021	3/12/2021	3/8/2021	3/4/2021	3/12/2021	3/4/2021	3/5/2021	3/9/2021	3/9/2021	3/9/2021
Appendix III												
BORON, TOTAL	mg/L	1.4	0.092 J	--	--	0.35	--	0.33	3.5	2.90	3.4	--
CALCIUM, TOTAL	mg/L	18.5	28.8	--	--	14.8	--	39.1	128	--	127	--
CHLORIDE, TOTAL	mg/L	8.3	5.9	--	--	2.9	--	3.2	7.8	--	13.5	--
FLUORIDE, TOTAL	mg/L	0.34	0.11	--	--	< 0.050	--	0.071 J	< 0.050	--	0.34	--
pH	S.U.	4.71	6.34	5.51	6.53	6.33	5.29	5.60	5.21	4.62	4.73	5.55
SULFATE, TOTAL	mg/L	225	46.5	--	--	4.9	--	113	497	--	488	--
TOTAL DISSOLVED SOLIDS	mg/L	303	172	--	--	128	--	234	798	--	790	--
Appendix IV												
ANTIMONY, TOTAL	mg/L	< 0.00028	< 0.0014	--	--	0.00063 J	--	< 0.00028	< 0.00028	--	< 0.0014	--
ARSENIC, TOTAL	mg/L	0.0030 J	< 0.0039	--	< 0.00078	0.0020 J	< 0.00078	< 0.00078	< 0.00078	--	< 0.0039	--
BARIUM, TOTAL	mg/L	0.028	0.027	--	--	0.11	--	0.032	0.022	--	0.016 J	--
BERYLLIUM, TOTAL	mg/L	0.0011	< 0.00023	--	--	0.000057 J	--	0.00037 J	0.0050	0.017	0.017	0.0019
CADMIUM, TOTAL	mg/L	0.00026 J	< 0.00059	--	--	< 0.00012	--	0.00032 J	0.0065	--	0.00075 J	--
CHROMIUM, TOTAL	mg/L	0.00059 J	< 0.0028	--	--	0.00098 J	--	0.0049 J	0.0017 J	--	< 0.0028	--
COBALT, TOTAL	mg/L	0.050	< 0.0019	0.046	0.01	0.0017 J	0.0021 J	0.0099	0.022	--	0.061	--
FLUORIDE, TOTAL	mg/L	0.34	0.11	--	--	< 0.050	--	0.071 J	< 0.050	--	0.34	--
LEAD, TOTAL	mg/L	0.00010 J	< 0.00018	--	--	0.00029 J	--	0.00017 J	0.012	--	< 0.00018	--
LITHIUM, TOTAL	mg/L	0.0051 J	0.0087 J	0.0066 J	--	0.0011 J	--	0.0024 J	0.029 J	--	0.012 J	--
MERCURY, TOTAL	mg/L	< 0.000078	< 0.000078	--	--	< 0.000078	--	< 0.000078	0.00010 J	--	0.00015 J	--
MOLYBDENUM, TOTAL	mg/L	< 0.00069	< 0.0034	--	--	< 0.00069	--	< 0.00069	< 0.00069	--	< 0.0034	--
RADIUM (226 + 228)	pCi/L	1.01 U	1.18 U	--	--	2.16	--	1.15 U	2.84	--	0.786 U	--
SELENIUM, TOTAL	mg/L	0.013	< 0.0078	--	--	0.0017 J	--	0.024	0.0033 J	--	0.0099 J	--
THALLIUM, TOTAL	mg/L	0.00026 J	< 0.00072	--	--	< 0.00014	--	< 0.00014	0.00020 J	--	< 0.00072	--

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 5F
ASSESSMENT MONITORING ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - March and April 2021
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	Units	Well ID										
		B-98	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
		3/15/2021	3/8/2021	3/5/2021	3/4/2021	3/4/2021	3/4/2021	3/4/2021	3/4/2021	3/8/2021	3/5/2021	4/14/2021
Appendix III												
BORON, TOTAL	mg/L	--	0.24	1.9	2.5	0.26	1.4	12.0	6.4	0.55	0.44	0.69
CALCIUM, TOTAL	mg/L	--	47.7	68.9	79.7	150	42.1	83.9	86.6	40.2	110	52.0
CHLORIDE, TOTAL	mg/L	--	12.9	9.0	10.4	7.9	7.8	13.0	29.4	3.9	39.2	7.9
FLUORIDE, TOTAL	mg/L	--	< 0.050	0.053 J	0.11	0.43	0.055 J	< 0.050	< 0.050	0.14	0.51	0.99
pH	S.U.	6.3	5.32	6.52	5.43	6.27	5.85	5.97	5.88	6.42	6.69	4.80
SULFATE, TOTAL	mg/L	--	388	236	256	474	170	309	309	102	270	256
TOTAL DISSOLVED SOLIDS	mg/L	--	660	462	459	818	321	525	569	305	634	480
Appendix IV												
ANTIMONY, TOTAL	mg/L	--	0.0017 J	0.0019 J	< 0.00028	0.00077 J	< 0.00028	< 0.00028	< 0.00028	0.00084 J	0.00060 J	< 0.00028
ARSENIC, TOTAL	mg/L	--	< 0.00078	0.0017 J	< 0.00078	0.0025 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0023 J	0.0028 J
BARIUM, TOTAL	mg/L	--	0.022	0.064	0.022	0.021	0.021	0.12	0.060	0.056	0.038	0.018
BERYLLIUM, TOTAL	mg/L	< 0.000046	0.00046 J	0.000047 J	0.0012	0.0015	0.00013 J	0.000050 J	< 0.000046	0.000079 J	< 0.000046	0.012
CADMIUM, TOTAL	mg/L	--	0.00027 J	< 0.00012	0.00081	< 0.00012	0.00021 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00041 J
CHROMIUM, TOTAL	mg/L	--	0.00057 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00061 J	< 0.00055	< 0.00055
COBALT, TOTAL	mg/L	< 0.00038	0.029	0.0023 J	0.014	0.19	0.00070 J	0.0012 J	0.0017 J	< 0.00038	0.00052 J	0.30
FLUORIDE, TOTAL	mg/L	--	< 0.050	0.053 J	0.11	0.43	0.055 J	< 0.050	< 0.050	0.14	0.51	0.99
LEAD, TOTAL	mg/L	--	0.00018 J	0.000065 J	0.000059 J	< 0.000036	< 0.000036	< 0.000036	< 0.000036	< 0.000036	< 0.000036	0.00032 J
LITHIUM, TOTAL	mg/L	--	0.0024 J	0.015 J	0.014 J	0.038	0.0054 J	0.015 J	0.014 J	0.014 J	0.028 J	0.089
MERCURY, TOTAL	mg/L	--	--	0.00014 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	--	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.0014 J	0.0067 J	< 0.00069
RADIUM (226 + 228)	pCi/L	--	0.168 U	2.17	0.789 U	14.5	0.681 U	2.14	2.02	12.1	9.05	14.7
SELENIUM, TOTAL	mg/L	--	0.0019 J	0.0031 J	< 0.0016	0.0031 J	< 0.0016	< 0.0016	0.0016 J	< 0.0016	0.0022 J	0.0060
THALLIUM, TOTAL	mg/L	--	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014

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 5F
ASSESSMENT MONITORING ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - March and April 2021
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	Unit	B-116D	B-117D	B-118	B-119D	B-120D
		4/13/2021	4/14/2021	4/13/2021	4/13/2021	4/15/2021
Appendix III						
BORON, TOTAL	mg/L	< 0.0052	< 0.0052	< 0.0052	0.039 J	1.9
CALCIUM, TOTAL	mg/L	10.6	9.8	6.5	20.5	171
CHLORIDE, TOTAL	mg/L	3.2	4.9	5.2	9.9	6.2
FLUORIDE, TOTAL	mg/L	< 0.050	0.056 J	0.055 J	0.12	< 0.050
pH	S.U.	6.06	6.06	6.02	6.64	5.46
SULFATE, TOTAL	mg/L	1.3	11.7	7.0	82.2	556
TOTAL DISSOLVED SOLIDS	mg/L	96.0	115	89.0	229	982
Appendix IV						
ANTIMONY, TOTAL	mg/L	< 0.00028	< 0.00028	< 0.00028	< 0.00028	0.00029 J
ARSENIC, TOTAL	mg/L	0.0012 J	0.0015 J	0.00094 J	0.0019 J	< 0.00078
BARIUM, TOTAL	mg/L	0.020	0.048	0.032	0.0087	0.044
BERYLLIUM, TOTAL	mg/L	< 0.000046	< 0.000046	< 0.000046	< 0.000046	0.00085
CADMIUM, TOTAL	mg/L	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.0010
CHROMIUM, TOTAL	mg/L	< 0.00055	< 0.00055	0.00059 J	< 0.00055	< 0.00055
COBALT, TOTAL	mg/L	< 0.00038	0.00079 J	0.00090 J	0.0015 J	0.017
FLUORIDE, TOTAL	mg/L	< 0.050	0.056 J	0.055 J	0.12	< 0.050
LEAD, TOTAL	mg/L	< 0.000036	< 0.000036	0.00012 J	< 0.000036	0.00019 J
LITHIUM, TOTAL	mg/L	0.0066 J	0.013 J	0.0019 J	0.0045 J	0.088
MERCURY, TOTAL	mg/L	0.00018 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	< 0.00069	0.00081 J	0.0056 J	0.027	0.00089 J
RADIUM (226 + 228)	pCi/L	0.505 U	1.20	0.948 U	0.904 U	2.31
SELENIUM, TOTAL	mg/L	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.0016 J
THALLIUM, TOTAL	mg/L	< 0.00014	< 0.00014	< 0.00014	< 0.00014	< 0.00014

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 5G
SURFACE WATER ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - November 2020
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	Units	SURFACE WATER SAMPLES						
		CR+0.4	CR+0.2	Dewatering Upstream	Dewatering Downstream	CR-0.2	CR-0.5	CR-0.8
		11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020	11/10/2020
Appendix III								
pH	S.U.	7.35	7.42	6.90	7.03	7.82	7.40	7.62
Appendix IV								
Beryllium	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Major Ions								
Magnesium	mg/L	2.0	2.0	2.0	2.0	2.1	2.0	2.0
Potassium	mg/L	2.6	2.5	2.7	2.6	2.6	2.8	2.6
Sodium	mg/L	5.4	5.5	5.5	5.6	5.9	5.7	5.6

Notes:

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

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

TABLE 5H
SURFACE WATER ANALYTICAL DATA SUMMARY
Ash Pond 2 and Ash Ponds 3/4 - February 2021
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Analyte	Units	SURFACE WATER SAMPLES							
		CR+0.4	CR+0.2	CR-0.1	Dewatering Downstream	Dewatering Upstream	CR-0.2	CR-0.5	CR-0.8
		2/2/2021	2/2/2021	2/2/2021	2/2/2021	2/2/2021	2/2/2021	2/2/2021	2/2/2021
Field Parameters									
Temperature	F	46.16	46.24	46.43	46.41	46.52	46.6	46.75	46.98
pH	S.U.	7.65	7.57	7.78	7.70	7.51	7.48	7.46	7.15
ORP	mV	-4.8	-3.4	-8.1	-11	-9.8	-19.3	-20.8	-21.3
Dissolved Oxygen	mg/L	13.02	13.08	12.92	14.72	12.87	13.00	13.05	13.97
Turbidity	NTU	14.2	13.7	16.0	11.8	12.3	14.0	14.4	14.0
Specific Conductance	mS/cm	0.080	0.080	0.083	0.079	0.079	0.079	0.078	0.080
Appendix III									
Boron	mg/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Calcium	mg/L	5.3	5	5.2	5.1	4.9	5	5.2	4.9
Chloride	mg/L	6.3	6.2	6.6	6.1	6.1	6.2	6.2	6.4
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate	mg/L	4.5	4.4	4.8	4.3	4.3	4.3	4.3	4.5
Total Dissolved Solids	mg/L	27	41	25	30	29	38	31	30
Appendix IV									
Arsenic	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Beryllium	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Molybdenum	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Major Ions									
Alkalinity, Total as CaCO ₃	mg/L	20.5	20.4	20.7	16.7	20.1	17.2	17	17
Alkalinity, Bicarbonate (CaCO ₃)	mg/L	20.5	20.4	20.7	16.7	20.1	17.2	17	17
Magnesium	mg/L	2.1	2.0	2.1	2.0	2.0	2.1	2.1	2.1
Potassium	mg/L	2.8	2.7	2.8	2.7	2.7	2.8	2.8	2.8
Sodium	mg/L	7.0	6.8	7.0	6.9	6.8	6.8	7.0	7.0

Notes:

F = Fahrenheit; S.U. = Standard Units; mV = Millivolts; mg/L = milligrams per liter; ug/L = micrograms per liter; mS/cm = Milisemens per centimeter; NTU = nephelometric turbidity unit

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

TABLE 5I
SURFACE WATER ANALYTICAL DATA SUMMARY
Ash Pond1 - March 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	CR-0.8
		3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021	3/9/2021
Field Parameters									
pH	S.U.	7.4	7.3	7.3	7.1	7.2	7.0	7.0	7.1
Appendix III									
Boron	mg/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Calcium	mg/L	4.7	5.2	5.1	5.4	5.3	5.2	5.5	5.0
Chloride	mg/L	7.0	6.4	6.2	6.4	6.5	6.6	6.7	6.3
Fluoride	mg/L	< 0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate	mg/L	4.3	3.8	3.6	3.7	4.2	3.8	3.7	3.8
Total Dissolved Solids	mg/L	42.0	28.0	47.0	28.0	45.0	50.0	77.0	21.0
Appendix IV									
Arsenic	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Beryllium	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Molybdenum	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Major Ions									
Alkalinity, Total as CaCO ₃	mg/L	17.7	17.3	17.4	17.4	17.2	17.6	17.0	17.2
Alkalinity, Bicarbonate (CaCO ₃)	mg/L	17.7	17.3	17.4	17.4	17.2	17.6	17.0	17.2
Magnesium	mg/L	2.2	2.2	2.1	2.2	2.1	2.0	2.1	2.1
Potassium	mg/L	2.6	2.7	2.6	2.7	2.7	2.7	2.7	2.6
Sodium	mg/L	6.5	6.7	6.4	6.8	6.6	6.6	6.9	6.5

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 6
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	Site Specific Background September 2020 ^[1]	Site Specific Background March 2021 ^[1]	Federal GWPS ^[2]	State GWPS ^[3]
Antimony	mg/L	0.006	--	0.003 ^[4]	0.003 ^[4]	0.006	0.006
Arsenic	mg/L	0.01	--	0.005 ^[4]	0.005 ^[4]	0.01	0.01
Barium	mg/L	2	--	0.19	0.19	2	2
Beryllium	mg/L	0.004	--	0.003 ^[4]	0.0005 ^[4]	0.004	0.004
Cadmium	mg/L	0.005	--	0.0025 ^[4]	0.0005 ^[4]	0.005	0.005
Chromium	mg/L	0.1	--	0.01 ^[4]	0.005 ^[4]	0.1	0.1
Cobalt	mg/L	NA	0.006	0.032	0.032	0.032	0.032
Fluoride	mg/L	4	--	0.42	0.42	4	4
Lead	mg/L	NA	0.015	0.005 ^[4]	0.001 ^[4]	0.015	0.001
Lithium	mg/L	NA	0.04	0.03 ^[4]	0.03 ^[4]	0.04	0.03
Mercury	mg/L	0.002	--	0.0005 ^[4]	0.0002 ^[4]	0.002	0.002
Molybdenum	mg/L	NA	0.1	0.041	0.041	0.1	0.041
Radium (226 + 228)	pCi/L	5	--	5.92	6.4	6.4	6.4
Selenium	mg/L	0.05	--	0.01 ^[4]	0.005 ^[4]	0.05	0.05
Thallium	mg/L	0.002	--	0.001 ^[4]	0.001 ^[4]	0.002	0.002

Notes:

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

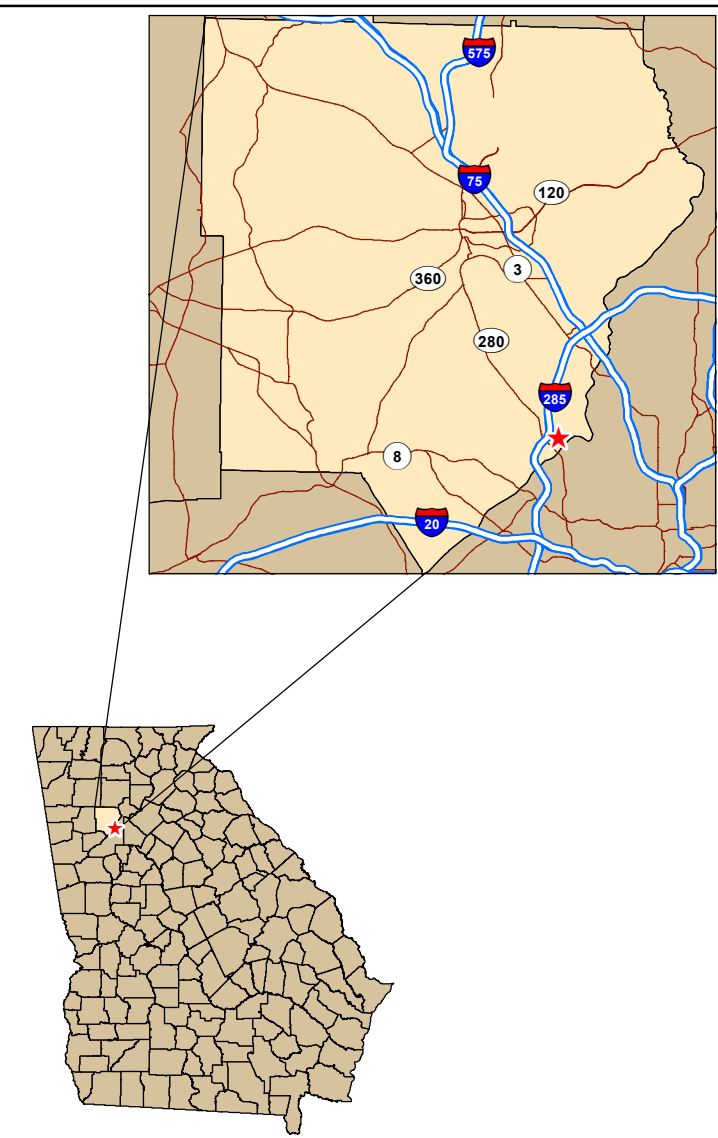
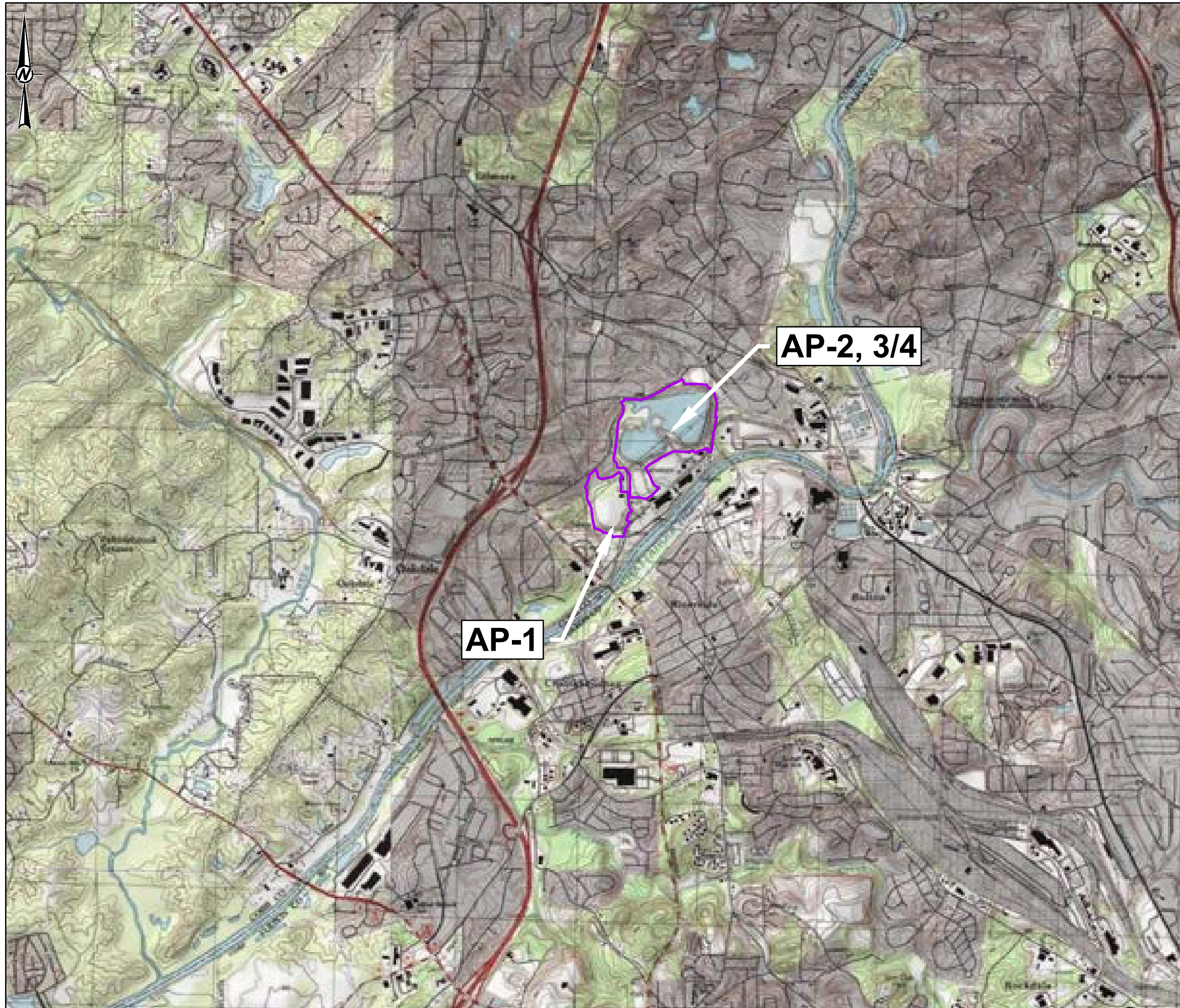
[1] The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).

[2] Under Federal CCR 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] Under existing EPD rules, the GWPS is: (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.

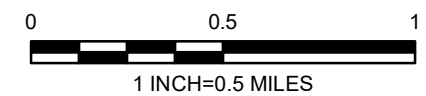
[4] The background tolerance limit (TL) used to evaluate GWPS for this analyte equals the laboratory specified reporting limit (RL). Per the Statistical Analysis Plan, and in accordance with the Unified Guidance, a non-parametric limit approach was used when the data set contains greater than 50% non-detect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

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CLIENT
 GEORGIA POWER COMPANY PLANT
 MCDONOUGH-ATKINSON



PROJECT
 2021 ANNUAL GROUNDWATER MONITORING AND
 CORRECTIVE ACTION REPORT-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

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



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 OCTOBER 4, 2019

NOTES

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

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

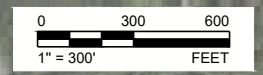


PROJECT
2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTIONS REPORT ASH POND 2 AND ASH POND 3/4

TITLE
PLANT MCDONOUGH CCR REMOVAL AREA

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

PROJECT NO. 1777449 REV. FIGURE 2



Path: \\atlantia\staff\Southern Company\1777449 Plant McDonough Remediation\1777449-remediation\1 File Name: 2_CCR REMOVAL AREAS MAP.dwg

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

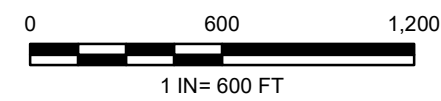


- LEGEND**
- AP-1 MONITORING WELL
 - PIEZOMETER
 - AP-2,3/4 MONITORING WELL
 - UPGRADIENT WELL
 - SURFACE WATER MONITORING LOCATION
 - DEWATERING WELL
 - STAFF GAUGE
 - PROPERTY BOUNDARY
 - PERMIT BOUNDARY

NOTES
 1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE

REFERENCE

1. SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND MARCH 09, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS SURVEYED BY METRO ENGINEERING 08/10/2020.



CLIENT
 GEORGIA POWER COMPANY PLANT
 MCDONOUGH-ATKINSON



PROJECT
 2021 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	2021-02-03
	PREPARED	DJC
	DESIGN	DLP
	CHECKED	DP
	REVIEWED/APPROVED	RPK

Path: C:\Users\labrad\OneDrive\Documents\166849621_SCS_PlantMcDonoughGWConsSiteGA-800_Shapefile\MXD\Remedy_Selection_Work_Plan\Figure 2 - Proposed Investigation Location Map.mxd

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



- LEGEND**
- ◆ AP-1 MONITORING WELL
 - ⊕ PIEZOMETER
 - ◆ AP-2,3/4 MONITORING WELL
 - ◆ UPGRADIENT WELL
 - ⊕ SURFACE WATER MONITORING LOCATION
 - ▲ DEWATERING WELL
 - ⊙ 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 MARCH 09, 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			
2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4			
TITLE			
(INSET) MONITORING WELL, PIEZOMETER AND SURFACE WATER LOCATION MAP			
CONSULTANT		YYYY-MM-DD	7/28/2021
		PREPARED	SEB
		DESIGN	DAH
		CHECKED	DLP
		REVIEW/APPROVED	RPK
PROJECT NO.	CONTROL	REV.	FIGURE
166849621		0	3B

THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM: ANS1 B

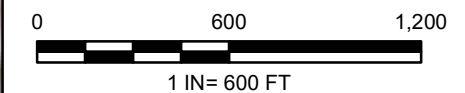


LEGEND

- PIEZOMETER
- AP-1 MONITORING WELL
- AP-2, 3/4 MONITORING WELL
- UPGRADIENT WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT NAVD)
- PERMIT BOUNDARY
- PROPERTY BOUNDARY

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
 2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED AUGUST 10, 2020 BY GOLDER ASSOCIATES.
 3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD).
 4. B-72 THROUGH B-74 WATER LEVELS NOT TAKEN DURING AUGUST 10TH, 2020 EVENT.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2018 FROM GOOGLE EARTH.
 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



CLIENT
 GEORGIA POWER COMPANY PLANT
 MCDONOUGH-ATKINSON

PROJECT
 2021 ANNUAL GROUNDWATER MONITORING AND
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
**SITE POTENTIOMETRIC MAP
 AUGUST 10, 2020**

CONSULTANT	YYYY-MM-DD	2020-08-10
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

Path: Q:\GIS\Southern Company\166849618-SCS-Plant_McDonough\Figure\SitePotentiometricMap_SEB_Aug2020_VL_10_4.mxd



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



LEGEND

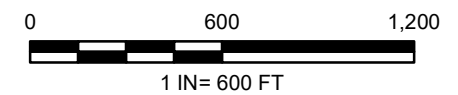
- PIEZOMETER
- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT NAVD)
- PERMIT BOUNDARY
- PROPERTY BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED SEPTEMBER 21, 2020 BY GOLDER ASSOCIATES.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD).
4. B-72 THROUGH B-74 WATER LEVELS NOT TAKEN DURING SEPTEMBER 21ST, 2020 EVENT.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2018 FROM GOOGLE EARTH.
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.



CLIENT
 GEORGIA POWER COMPANY PLANT
 MCDONOUGH-ATKINSON



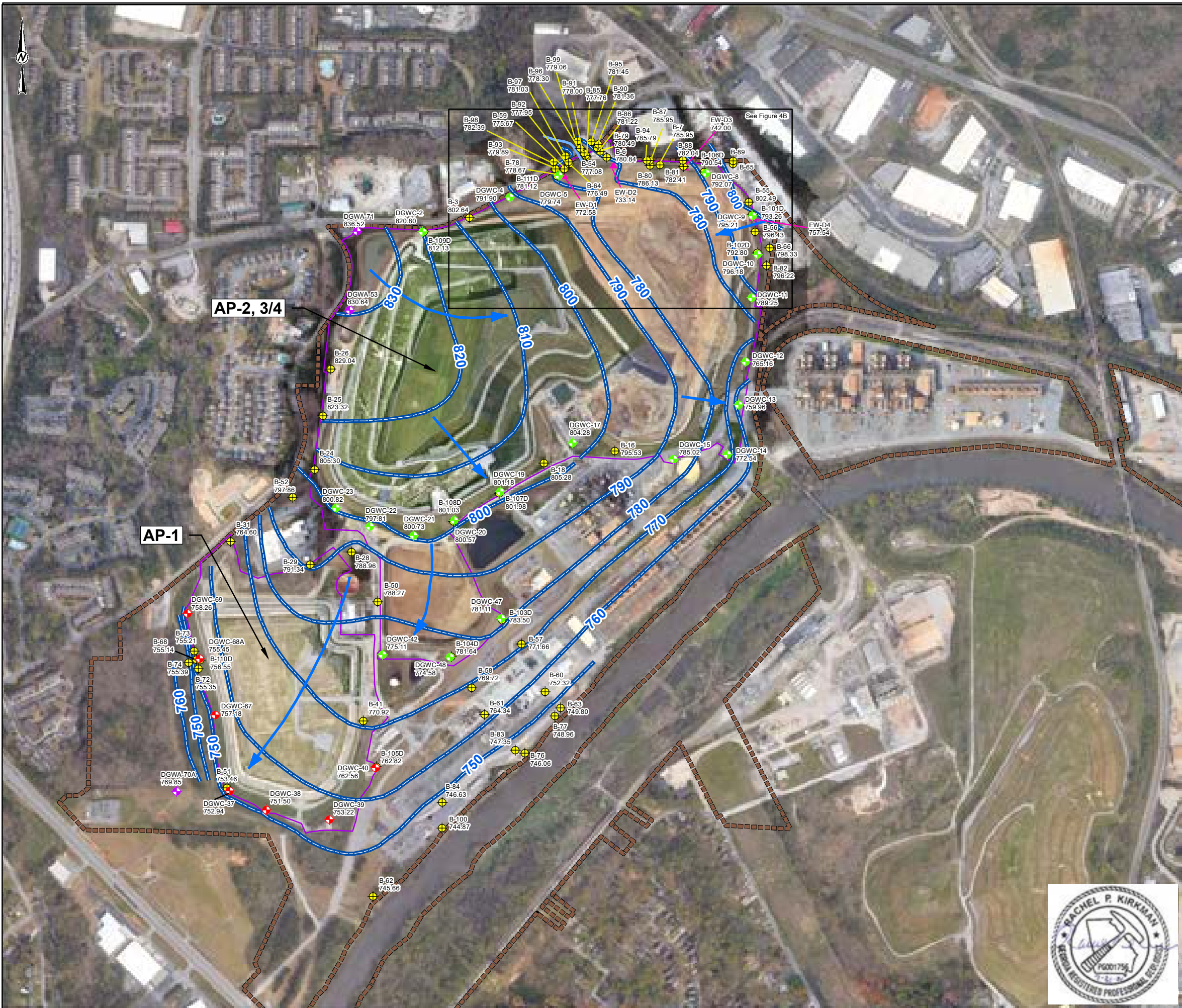
PROJECT
 2021 ANNUAL GROUNDWATER MONITORING AND
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

**SITE POTENTIOMETRIC MAP
 SEPTEMBER 21, 2020**

CONSULTANT	YYYY-MM-DD	2020-09-21
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

PROJECT No. 166849618 Rev. 0 FIGURE 4B

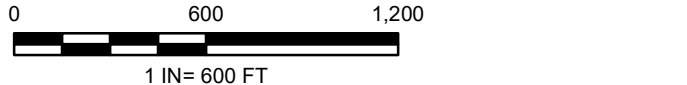




- LEGEND**
- PIEZOMETER
 - AP-1 MONITORING WELL
 - AP-2,3/4 MONITORING WELL
 - UPGRADIENT WELL
 - DEWATERING WELL
 - APPROXIMATE GROUNDWATER FLOW DIRECTION
 - GROUNDWATER SURFACE CONTOUR (FT-NAVD)
 - SURFACE WATER STREAM
 - PERMIT BOUNDARY
 - PROPERTY BOUNDARY

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
 2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED FEBRUARY 25, 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 MARCH 09, 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
 2021 ANNUAL GROUNDWATER MONITORING AND
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
SITE POTENTIOMETRIC MAP
FEBRUARY 25, 2021

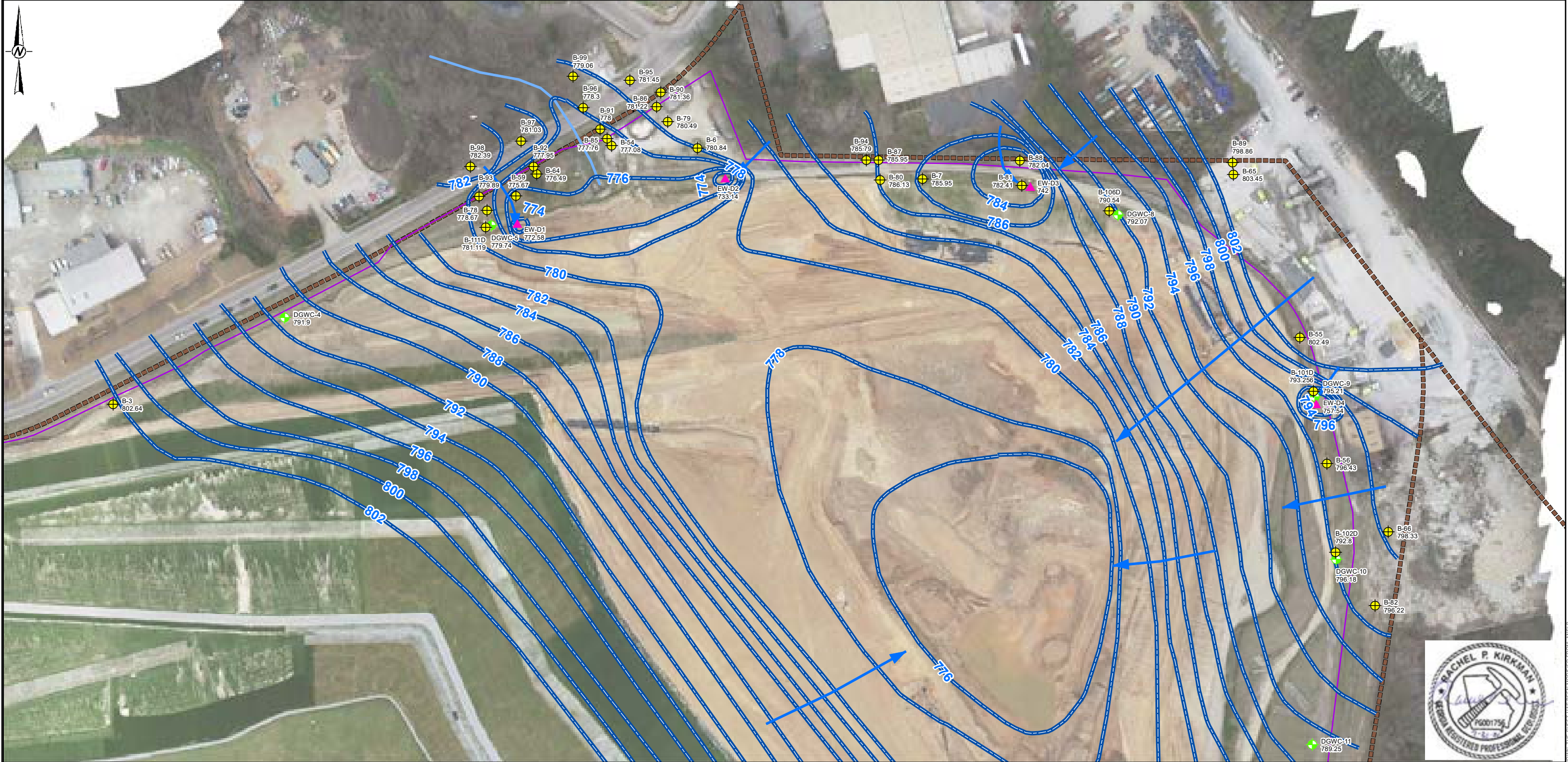
CONSULTANT	YYYY-MM-DD	2021-03-05
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

PROJECT No. 166849621 Rev. 0 FIGURE 4C



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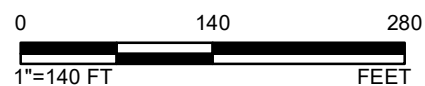
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSIB



- LEGEND**
- PIEZOMETER
 - ◆ AP-1 MONITORING WELL
 - ◆ AP-2,3/4 MONITORING WELL
 - ◆ UPGRADIENT WELL
 - ▲ DEWATERING WELL
 - ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION
 - GROUNDWATER SURFACE CONTOUR (FT-NAVD)
 - SURFACE WATER STREAM
 - PERMIT BOUNDARY
 - PROPERTY BOUNDARY

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
 2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED FEBRUARY 25, 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.
 5. DEWATERING WELLS GROUNDWATER ELEVATION DETERMINED USING TOPOGRAPHY.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND MARCH 09, 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
 2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
(INSET) SITE POTENTIOMETRIC MAP
FEBRUARY 25, 2021

CONSULTANT
 GOLDER
 MEMBER OF WSP

YYYY-MM-DD	7/28/2021
PREPARED	SEB
DESIGN	DAH
CHECKED	DLP
REVIEW/APPROVED	RPK

PROJECT NO. 166849621 **CONTROL** **REV.** 0 **FIGURE** 4D

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

APPENDIX A

Laboratory Analytical Data, Field Data Forms,
Instrument Calibration Forms, Well Inspection Forms,
Data Validation Summaries, and Laboratory
Accreditation

APPENDIX A

Laboratory Analytical Data
August 2020



September 09, 2020

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

RE: Project: PLANT MCDONOUGH BACKGROUND
Pace Project No.: 92490488

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between August 12, 2020 and August 14, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT MCDONOUGH BACKGROUND
Pace Project No.: 92490488

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 #: 191
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

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

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92490488001	DGWA-70A	Water	08/11/20 11:37	08/12/20 08:57
92490488002	DGWA-71	Water	08/11/20 14:55	08/12/20 08:57
92490488003	EB-1	Water	08/11/20 12:50	08/12/20 08:57
92490488004	DGWA-53	Water	08/13/20 13:07	08/14/20 14:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92490488001	DGWA-70A	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490488002	DGWA-71	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490488003	EB-1	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490488004	DGWA-53	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH BACKGROUND
 Pace Project No.: 92490488

Sample: DGWA-70A	Lab ID: 92490488001	Collected: 08/11/20 11:37	Received: 08/12/20 08:57	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.86	Std. Units			1		08/20/20 17:23		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 18:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 18:33	7440-38-2	
Barium	0.041	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 18:33	7440-39-3	
Beryllium	0.00013J	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 18:33	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 18:33	7440-43-9	
Chromium	0.0016J	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 18:33	7440-47-3	B
Cobalt	0.0012J	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 18:33	7440-48-4	
Lead	0.00030J	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 18:33	7439-92-1	
Lithium	0.0019J	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 18:33	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 18:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:26	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/13/20 23:59	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Sample: DGWA-71 **Lab ID: 92490488002** Collected: 08/11/20 14:55 Received: 08/12/20 08:57 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.96	Std. Units			1		08/20/20 17:23		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0018J	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 18:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 18:56	7440-38-2	
Barium	0.026	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 18:56	7440-39-3	
Beryllium	0.00011J	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 18:56	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 18:56	7440-43-9	
Chromium	0.00060J	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 18:56	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 18:56	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 18:56	7439-92-1	
Lithium	0.0015J	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 18:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 18:56	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 18:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 18:56	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	08/14/20 08:10	08/14/20 13:29	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/14/20 01:08	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH BACKGROUND
 Pace Project No.: 92490488

Sample: EB-1 Lab ID: 92490488003 Collected: 08/11/20 12:50 Received: 08/12/20 08:57 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	0.00038J	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 19:13	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 19:13	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 19:13	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 19:13	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 19:13	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 19:13	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 19:13	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 19:13	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 19:13	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 19:13	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 19:13	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 19:13	7440-28-0		
7470 Mercury										
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA										
Mercury	ND	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:31	7439-97-6		
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		08/14/20 01:22	16984-48-8		

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWA-53 Lab ID: 92490488004 Collected: 08/13/20 13:07 Received: 08/14/20 14:30 Matrix: Water									
Field Data Analytical Method: Pace Analytical Services - Charlotte									
pH	6.17	Std. Units			1		08/20/20 17:23		
6020 MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00030J	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 18:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 18:37	7440-38-2	
Barium	0.046	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 18:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 18:37	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 18:37	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 18:37	7440-47-3	
Cobalt	0.0051	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 18:37	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 18:37	7439-92-1	
Lithium	0.0085J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 18:37	7439-93-2	
Molybdenum	0.012	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 18:37	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 18:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 18:37	7440-28-0	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 11:13	7439-97-6	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.062J	mg/L	0.10	0.050	1		08/18/20 19:53	16984-48-8	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

QC Batch:	559731	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92490488001, 92490488002, 92490488003

METHOD BLANK: 2969713 Matrix: Water

Associated Lab Samples: 92490488001, 92490488002, 92490488003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/17/20 18:05	
Arsenic	mg/L	ND	0.0050	0.00078	08/17/20 18:05	
Barium	mg/L	ND	0.010	0.00071	08/17/20 18:05	
Beryllium	mg/L	ND	0.0030	0.000046	08/17/20 18:05	
Cadmium	mg/L	ND	0.0025	0.00012	08/17/20 18:05	
Chromium	mg/L	0.00061J	0.010	0.00055	08/17/20 18:05	
Cobalt	mg/L	ND	0.0050	0.00038	08/17/20 18:05	
Lead	mg/L	ND	0.0050	0.000036	08/17/20 18:05	
Lithium	mg/L	ND	0.030	0.00081	08/17/20 18:05	
Molybdenum	mg/L	ND	0.010	0.00069	08/17/20 18:05	
Selenium	mg/L	ND	0.010	0.0016	08/17/20 18:05	
Thallium	mg/L	ND	0.0010	0.00014	08/17/20 18:05	

LABORATORY CONTROL SAMPLE: 2969714

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	0.099	99	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2973381 2973382

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92490488001	Result	Spike Conc.	Spike Conc.							Result	Result
Antimony	mg/L	0.0013J	0.1	0.1	0.11	0.11	110	105	75-125	4	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	4	20	
Barium	mg/L	0.041	0.1	0.1	0.15	0.15	112	106	75-125	4	20	
Beryllium	mg/L	0.00013J	0.1	0.1	0.11	0.10	105	103	75-125	2	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Parameter	Units	2973381		2973382		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Cadmium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Chromium	mg/L	0.0016J	0.1	0.1	0.10	0.096	102	95	75-125	7	20		
Cobalt	mg/L	0.0012J	0.1	0.1	0.10	0.097	101	96	75-125	5	20		
Lead	mg/L	0.00030J	0.1	0.1	0.11	0.10	106	101	75-125	5	20		
Lithium	mg/L	0.0019J	0.1	0.1	0.11	0.11	106	104	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.097	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	105	102	75-125	3	20		

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

QC Batch: 560739

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92490488004

METHOD BLANK: 2974806

Matrix: Water

Associated Lab Samples: 92490488004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/19/20 17:51	
Arsenic	mg/L	ND	0.0050	0.00078	08/19/20 17:51	
Barium	mg/L	ND	0.010	0.00071	08/19/20 17:51	
Beryllium	mg/L	ND	0.0030	0.000046	08/19/20 17:51	
Cadmium	mg/L	ND	0.0025	0.00012	08/19/20 17:51	
Chromium	mg/L	ND	0.010	0.00055	08/19/20 17:51	
Cobalt	mg/L	ND	0.0050	0.00038	08/19/20 17:51	
Lead	mg/L	ND	0.0050	0.000036	08/19/20 17:51	
Lithium	mg/L	ND	0.030	0.00081	08/19/20 17:51	
Molybdenum	mg/L	ND	0.010	0.00069	08/19/20 17:51	
Selenium	mg/L	ND	0.010	0.0016	08/19/20 17:51	
Thallium	mg/L	ND	0.0010	0.00014	08/19/20 17:51	

LABORATORY CONTROL SAMPLE: 2974807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2974808 2974809

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92490942006 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	114	109	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Barium	mg/L	0.088	0.1	0.1	0.22	0.21	131	119	75-125	6	20	M1
Beryllium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Parameter	Units	2974808		2974809		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92490942006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								MSD Result
Cadmium	mg/L	0.00021J	0.1	0.1	0.10	0.098	99	98	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	0	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.098	102	97	75-125	4	20	
Molybdenum	mg/L	0.19	0.1	0.1	0.31	0.29	122	105	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.093	99	92	75-125	7	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

QC Batch: 559929	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92490488001, 92490488002, 92490488003

METHOD BLANK: 2971190 Matrix: Water
 Associated Lab Samples: 92490488001, 92490488002, 92490488003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	08/14/20 12:55	

LABORATORY CONTROL SAMPLE: 2971191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2971192 2971193

Parameter	Units	MS		MSD		% Rec		% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result	% Rec	% Rec				
Mercury	mg/L	ND	0.0025	0.0025	0.0025	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH BACKGROUND
 Pace Project No.: 92490488

QC Batch: 560630	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92490488004

METHOD BLANK: 2974336 Matrix: Water
 Associated Lab Samples: 92490488004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	08/19/20 10:06	

LABORATORY CONTROL SAMPLE: 2974337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2974338 2974339

Parameter	Units	2974338		2974339		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	3.1 ug/L	0.0025	0.0025	0.0060	0.0058	118	111	75-125	3	20

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH BACKGROUND
 Pace Project No.: 92490488

QC Batch: 559792 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: 92490488001, 92490488002, 92490488003

METHOD BLANK: 2970272 Matrix: Water
 Associated Lab Samples: 92490488001, 92490488002, 92490488003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/13/20 23:31	

LABORATORY CONTROL SAMPLE: 2970273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2970274 2970275

Parameter	Units	92490488001		2970274		2970275		% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Fluoride	mg/L	ND	2.5	2.5	2.7	2.6	106	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2970276 2970277

Parameter	Units	92490503008		2970276		2970277		% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Fluoride	mg/L	ND	2.5	2.5	2.6	2.4	102	98	90-110	4	10	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH BACKGROUND
 Pace Project No.: 92490488

QC Batch: 560576 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: 92490488004

METHOD BLANK: 2974090 Matrix: Water
 Associated Lab Samples: 92490488004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/18/20 13:07	

LABORATORY CONTROL SAMPLE: 2974091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2974092 2974093

Parameter	Units	2974092		2974093		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92490804001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Fluoride	mg/L	0.82	2.5	2.5	3.3	3.3	100	101	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2974094 2974095

Parameter	Units	2974094		2974095		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92490867001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Fluoride	mg/L	0.37	2.5	2.5	3.0	3.1	107	107	90-110	1	10

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWA-70A Lab ID: 92490488001 Collected: 08/11/20 11:37 Received: 08/12/20 08:57 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.178 ± 0.171 (0.324) C:89% T:NA	pCi/L	08/24/20 07:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.634 ± 0.446 (0.869) C:64% T:88%	pCi/L	08/27/20 11:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.812 ± 0.617 (1.19)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWA-71 Lab ID: 92490488002 Collected: 08/11/20 14:55 Received: 08/12/20 08:57 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.217 ± 0.159 (0.256) C:94% T:NA	pCi/L	08/24/20 07:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.748 ± 0.451 (0.847) C:69% T:85%	pCi/L	08/27/20 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.965 ± 0.610 (1.10)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-1 Lab ID: 92490488003 Collected: 08/11/20 12:50 Received: 08/12/20 08:57 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0219 ± 0.117 (0.336) C:88% T:NA	pCi/L	08/24/20 07:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.168 ± 0.413 (0.918) C:66% T:83%	pCi/L	08/27/20 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.168 ± 0.530 (1.25)	pCi/L	09/04/20 08:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Sample: DGWA-53 **Lab ID: 92490488004** Collected: 08/13/20 13:07 Received: 08/14/20 14:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.706 ± 0.192 (0.183) C:81% T:NA	pCi/L	08/31/20 19:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.337 ± 0.382 (0.798) C:61% T:83%	pCi/L	09/08/20 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.04 ± 0.574 (0.981)	pCi/L	09/09/20 08:53	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

QC Batch: 411433

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92490488004

METHOD BLANK: 1990338

Matrix: Water

Associated Lab Samples: 92490488004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.527 ± 0.407 (0.796) C:61% T:86%	pCi/L	09/08/20 11:52	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

QC Batch:	410124	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92490488001, 92490488002, 92490488003

METHOD BLANK: 1984702 Matrix: Water

Associated Lab Samples: 92490488001, 92490488002, 92490488003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.731 ± 0.425 (0.763) C:63% T:81%	pCi/L	08/27/20 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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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

QC Batch:	410046	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92490488001, 92490488002, 92490488003

METHOD BLANK: 1984358 Matrix: Water

Associated Lab Samples: 92490488001, 92490488002, 92490488003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0476 ± 0.101 (0.237) C:93% T:NA	pCi/L	08/24/20 07:55	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH BACKGROUND
 Pace Project No.: 92490488

QC Batch: 411372	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92490488004

METHOD BLANK: 1989991 Matrix: Water

Associated Lab Samples: 92490488004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0430 ± 0.0800 (0.185) C:87% T:NA	pCi/L	08/31/20 19:25	

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: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

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

B Analyte was detected in the associated method blank.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT MCDONOUGH BACKGROUND

Pace Project No.: 92490488

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92490488001	DGWA-70A				
92490488002	DGWA-71				
92490488004	DGWA-53				
92490488001	DGWA-70A	EPA 3005A	559731	EPA 6020B	559753
92490488002	DGWA-71	EPA 3005A	559731	EPA 6020B	559753
92490488003	EB-1	EPA 3005A	559731	EPA 6020B	559753
92490488004	DGWA-53	EPA 3005A	560739	EPA 6020B	560802
92490488001	DGWA-70A	EPA 7470A	559929	EPA 7470A	559986
92490488002	DGWA-71	EPA 7470A	559929	EPA 7470A	559986
92490488003	EB-1	EPA 7470A	559929	EPA 7470A	559986
92490488004	DGWA-53	EPA 7470A	560630	EPA 7470A	560770
92490488001	DGWA-70A	EPA 9315	410046		
92490488002	DGWA-71	EPA 9315	410046		
92490488003	EB-1	EPA 9315	410046		
92490488004	DGWA-53	EPA 9315	411372		
92490488001	DGWA-70A	EPA 9320	410124		
92490488002	DGWA-71	EPA 9320	410124		
92490488003	EB-1	EPA 9320	410124		
92490488004	DGWA-53	EPA 9320	411433		
92490488001	DGWA-70A	Total Radium Calculation	412557		
92490488002	DGWA-71	Total Radium Calculation	412557		
92490488003	EB-1	Total Radium Calculation	412558		
92490488004	DGWA-53	Total Radium Calculation	413004		
92490488001	DGWA-70A	EPA 300.0 Rev 2.1 1993	559792		
92490488002	DGWA-71	EPA 300.0 Rev 2.1 1993	559792		
92490488003	EB-1	EPA 300.0 Rev 2.1 1993	559792		
92490488004	DGWA-53	EPA 300.0 Rev 2.1 1993	560576		

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Sample Condition Upon Rec

WO#: 92490488

Client Name: G. A. Power



92490488

Courier: Fed Ex UPS USPS Client Commercial Pace On Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Proj. Due Date: _____
Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 233 Type of Ice: Dry Blue None Samples on ice, cooling process has begun

Cooler Temperature 1.8 Biological Tissue Is Frozen: Yes No

Temp should be above freezing to 6°C

Date and initials of person examining contents: 8/13/2007

Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date: _____	Time: _____	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date: _____	Time: _____	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date: _____	Time: _____	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	10.
Filtered volume received for Dissolved tests:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	12.
-Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	
All containers needing preservation have been checked:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	13.
All containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	
exceptions: VOA, uniform, TOC, GAO, W-CMO (over)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date: _____	Time: _____	Initial when completed
				Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____	Time: _____	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date: _____	Time: _____	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date: _____	Time: _____	16.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date: _____	Time: _____	
Pace Trip Blank Lot # (if purchased):	_____			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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



Document Name:
Bottle Identification Form (BIF)
Document No.
B-CAR-05-043-Rev.00

Document Issued: March 14, 2013
Page 1 of 1
Issuing Authority:
Face Carolina Quality Office

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

Project #

WO#: 92490488

PR: KLH1 Due Date: 08/28/20

CLIENT: CR-CR Power

Exceptions: VOA, Cellform, TOC, Oil and Grease, DBO/DOC (water) DOC, LUNG
**Bottom half of box is to list number of bottles

Month	Sample	1	2	3	4	5	6	7	8	9	10	11	12
	BP03-125 ml, Plastic, Unpreserved (P/N/A) (C-1)												
	BP10-250 ml, Plastic, Unpreserved (P/N/A)												
	BP20-500 ml, Plastic, Unpreserved (P/N/A)												
	BP100-1 liter (P/N/A) Unpreserved (P/N/A)												
	BP400-125 ml, Plastic, H2SO4 (pH = 2) (C-1)												
	BP300-250 ml, plastic, HNO3 (pH = 2)												
	BP400-125 ml, Plastic 2N Acetate & NaOH (P/N)												
	BP400-125 ml, Plastic NaOH (pH = 12) (C-1)												
	W000-1000 ml, mounted Glass jar Unpreserved												
	AG100-1 liter Amber Unpreserved (P/N/A) (C-1)												
	AG100-1 liter Amber HCl (pH = 2)												
	AG100-250 ml, Amber Unpreserved (P/N/A) (C-1)												
	AG100-1 liter Amber HCl (pH = 2)												
	AG100-250 ml, Amber H2SO4 (pH = 2)												
	AG100-250 ml, Amber HNO3 (pH = 2) (C-1)												
	AG100-40 ml, VOA HCl (P/N/A)												
	VO00-40 ml, VOA HCl (P/N/A)												
	VO00-40 ml, VOA H2SO4 (P/N/A)												
	VO00-40 ml, VOA HNO3 (P/N/A)												
	VO00 (H wash per instructions) (P/N/A)												
	VO00 (H wash per instructions) (P/N/A)												
	SP00-125 ml, Double Plastic (P/N/A - 100)												
	SP00-100 ml, Double Plastic (P/N/A - 100)												
	SP00-100 ml, Plastic preservative (P.N.A. 7)												
	AG000-100 ml, Amber Unpreserved vials (P/N/A)												
	VO000-20 ml, Substitution vials (P/N/A)												

CPN

pH Adjustment Log for Preserved Samples

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

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

2

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 Requester Name: [Blank] Requester Title: [Blank] Requester Organization: [Blank] Requester Address: [Blank] Requester City: [Blank] Requester State: [Blank] Requester Zip: [Blank]		Section 2 Requested Analytical Information Analytical Method: [Blank] Analytical Instrument: [Blank] Analytical Laboratory: [Blank]		Section 3 Sample Information Sample ID: [Blank] Sample Description: [Blank]	
--	--	--	--	---	--

ITEM #	SAMPLE ID	Description of Sample	Quantity	Unit	Container / Packaging	Preservation		Analysis Test			Retention Chain (Y/N)
						Temperature	Humidity	Top of Sample	Fluorescence	Matrix: 100000	
1	00000101		10	g		20°C	50%	Y	Y	Y	
2	00000102		10	g		20°C	50%	Y	Y	Y	
3	00000103		10	g		20°C	50%	Y	Y	Y	
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Date of Collection: [Blank] Location of Collection: [Blank] Name of Collector: [Blank]	Date of Analysis: [Blank] Name of Analyst: [Blank]
--	---



Quality Control Sample Performance Assessment

Major Water Quality Control Facility - 17101 - 17101

Year	No. QC Samples
2021	100
2022	100
Average	100%

Sample Type	QC Sample	Pass
Influent Flow Measurement	Flowmeter 1	100%
	Flowmeter 2	100%
	Flowmeter 3	100%
	Flowmeter 4	100%
	Flowmeter 5	100%
Effluent Flow Measurement	Flowmeter 1	100%
	Flowmeter 2	100%
	Flowmeter 3	100%
	Flowmeter 4	100%
	Flowmeter 5	100%

Sample Type	QC Sample	Pass
Chemical Control Sample Measurement	Chlorine	100%
	Ammonia	100%
	Phosphate	100%
	Iron	100%
	Copper	100%
	Lead	100%
	Cadmium	100%
	Mercury	100%
	Vanadium	100%
	Chromium	100%
	Barium	100%
	Strontium	100%
	Selenium	100%
	Antimony	100%
	Thallium	100%

Sample Type	QC Sample	Pass
Influent Flow Measurement	Flowmeter 1	100%
	Flowmeter 2	100%
	Flowmeter 3	100%
	Flowmeter 4	100%
	Flowmeter 5	100%
	Flowmeter 6	100%
	Flowmeter 7	100%
	Flowmeter 8	100%
	Flowmeter 9	100%
	Flowmeter 10	100%
	Flowmeter 11	100%
	Flowmeter 12	100%
	Flowmeter 13	100%
	Flowmeter 14	100%
	Flowmeter 15	100%
	Flowmeter 16	100%
	Flowmeter 17	100%
	Flowmeter 18	100%
	Flowmeter 19	100%
	Flowmeter 20	100%
	Flowmeter 21	100%
	Flowmeter 22	100%
	Flowmeter 23	100%
	Flowmeter 24	100%
	Flowmeter 25	100%

Sample Type	QC Sample	Pass
Effluent Flow Measurement	Flowmeter 1	100%
	Flowmeter 2	100%
	Flowmeter 3	100%
	Flowmeter 4	100%
	Flowmeter 5	100%
	Flowmeter 6	100%
	Flowmeter 7	100%
	Flowmeter 8	100%
	Flowmeter 9	100%
	Flowmeter 10	100%
	Flowmeter 11	100%
	Flowmeter 12	100%
	Flowmeter 13	100%
	Flowmeter 14	100%
	Flowmeter 15	100%

Sample Type	QC Sample	Pass
Chemical Control Sample Measurement	Chlorine	100%
	Ammonia	100%
	Phosphate	100%
	Iron	100%
	Copper	100%
	Lead	100%
	Cadmium	100%
	Mercury	100%
	Vanadium	100%
	Chromium	100%
	Barium	100%
	Strontium	100%
	Selenium	100%
	Antimony	100%
	Thallium	100%

All samples are reported as passed or failed. No samples are reported as failed.

Comments:

Handwritten signature





Quality Control: Sample Performance Assessment

Report to: **Director, FBI** Date: **10/11/2011** Report of: **John J. ...**

Sample Information		Sample Location	Sample Date	Sample Time
Sample Name: [Redacted] Sample ID: [Redacted] Sample Location: [Redacted] Sample Date: [Redacted] Sample Time: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Description: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Collection Method: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Analysis Method: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Storage: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Handling: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Packaging: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Labeling: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Documentation: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Reporting: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Review: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Approval: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Distribution: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Archiving: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Retention: [Redacted]		[Redacted]	[Redacted]	[Redacted]
Sample Disposal: [Redacted]		[Redacted]	[Redacted]	[Redacted]

1. This report is for the use of the FBI only and is not to be distributed outside the FBI.

Comments:

John J. ...

John J. ...



Quality Control Sample Performance Assessment

Analysis Method: Dissolved Oxygen and Temperature

Station Name	Station Number	Station Address	Depth		Sample Type	Sample Date	Sample Time	Parameter	Value	Standard	Lab Name	Lab Address	Lab Phone	Lab Email	Lab Website	Lab Certification	Lab Accreditation	Lab License	Lab Expiration	Lab Contact	Lab Notes
			Top	Bottom																	
Station 1	100	100 Main St	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Station 2	200	200 Main St	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Station 3	300	300 Main St	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Station 4	400	400 Main St	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Station 5	500	500 Main St	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Station 6	600	600 Main St	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
Station 7	700	700 Main St	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700
Station 8	800	800 Main St	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
Station 9	900	900 Main St	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900
Station 10	1000	1000 Main St	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Contact:

9/21/2008



Quality Control Sample Performance Assessment

Sample Map Accuracy: 100% (100% of samples were correct)

Total	100%
Number of Samples	100%
Number of Correct	100%

Sample Type	Count	Percentage
All Samples	100	100%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%

Sample Type	Count	Percentage
All Samples	100	100%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%

Sample Type	Count	Percentage
All Samples	100	100%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%

Sample Type	Count	Percentage
All Samples	100	100%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%

Sample Type	Count	Percentage
All Samples	100	100%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%
QC Samples	10	10%
Field Samples	90	90%
Lab Samples	10	10%

QC Samples: 10 (10% of total samples) - All QC samples were correct.

Summary: 100% of samples were correct. 100% of QC samples were correct. 100% of field samples were correct. 100% of lab samples were correct.

100% Correct



Quality Control Sample Performance Assessment

Supervisor: Mary Jo Foster Date Analyzed: 10/26/05

Sample	Value
Blank	0.0
Control 1	100%
Control 2	100%
Control 3	100%
Control 4	100%

Sample	Value
Control 1	100%
Control 2	100%
Control 3	100%
Control 4	100%

Sample	Value	Control
Control 1	100%	100%
Control 2	100%	100%
Control 3	100%	100%
Control 4	100%	100%
Control 5	100%	100%
Control 6	100%	100%
Control 7	100%	100%
Control 8	100%	100%
Control 9	100%	100%
Control 10	100%	100%
Control 11	100%	100%
Control 12	100%	100%
Control 13	100%	100%
Control 14	100%	100%
Control 15	100%	100%
Control 16	100%	100%
Control 17	100%	100%
Control 18	100%	100%
Control 19	100%	100%
Control 20	100%	100%

Sample	Value	Control
Control 1	100%	100%
Control 2	100%	100%
Control 3	100%	100%
Control 4	100%	100%
Control 5	100%	100%
Control 6	100%	100%
Control 7	100%	100%
Control 8	100%	100%
Control 9	100%	100%
Control 10	100%	100%
Control 11	100%	100%
Control 12	100%	100%
Control 13	100%	100%
Control 14	100%	100%
Control 15	100%	100%
Control 16	100%	100%
Control 17	100%	100%
Control 18	100%	100%
Control 19	100%	100%
Control 20	100%	100%

Blank, Control 1, Control 2, Control 3, Control 4, Control 5, Control 6, Control 7, Control 8, Control 9, Control 10, Control 11, Control 12, Control 13, Control 14, Control 15, Control 16, Control 17, Control 18, Control 19, Control 20

Control 1

Sample	Value	Control
Control 1	100%	100%
Control 2	100%	100%
Control 3	100%	100%
Control 4	100%	100%
Control 5	100%	100%
Control 6	100%	100%
Control 7	100%	100%
Control 8	100%	100%
Control 9	100%	100%
Control 10	100%	100%
Control 11	100%	100%
Control 12	100%	100%
Control 13	100%	100%
Control 14	100%	100%
Control 15	100%	100%
Control 16	100%	100%
Control 17	100%	100%
Control 18	100%	100%
Control 19	100%	100%
Control 20	100%	100%

Sample	Value	Control
Control 1	100%	100%
Control 2	100%	100%
Control 3	100%	100%
Control 4	100%	100%
Control 5	100%	100%
Control 6	100%	100%
Control 7	100%	100%
Control 8	100%	100%
Control 9	100%	100%
Control 10	100%	100%
Control 11	100%	100%
Control 12	100%	100%
Control 13	100%	100%
Control 14	100%	100%
Control 15	100%	100%
Control 16	100%	100%
Control 17	100%	100%
Control 18	100%	100%
Control 19	100%	100%
Control 20	100%	100%



September 10, 2020

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

RE: Project: PLANT MCDONOUGH AP-2, 3/4
Pace Project No.: 92490503

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between August 12, 2020 and August 14, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT MCDONOUGH AP-2, 3/4
Pace Project No.: 92490503

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 #: 191
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

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

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT MCDONOUGH AP-2, 3/4
Pace Project No.: 92490503

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92490503001	DGWC-2	Water	08/11/20 13:20	08/12/20 08:57
92490503002	DGWC-9	Water	08/11/20 16:05	08/12/20 08:57
92490503003	DGWC-10	Water	08/11/20 16:30	08/12/20 08:57
92490503004	DGWC-11	Water	08/11/20 12:15	08/12/20 08:57
92490503005	DGWC-12	Water	08/11/20 14:50	08/12/20 08:57
92490503006	DGWC-14	Water	08/11/20 11:32	08/12/20 08:57
92490503007	DGWC-19	Water	08/11/20 13:00	08/12/20 08:57
92490503008	FB-1	Water	08/11/20 11:55	08/12/20 08:57
92490503009	FD-1	Water	08/11/20 00:00	08/12/20 08:57
92490503010	DGWC-4	Water	08/12/20 11:46	08/13/20 10:15
92490503011	DGWC-5	Water	08/12/20 10:45	08/13/20 10:15
92490503012	DGWC-8	Water	08/12/20 10:15	08/13/20 10:15
92490503013	DGWC-13	Water	08/12/20 11:40	08/13/20 10:15
92490503014	DGWC-47	Water	08/12/20 10:25	08/13/20 10:15
92490503015	FD-2	Water	08/12/20 00:00	08/13/20 10:15
92490503016	DGWC-15	Water	08/13/20 10:40	08/14/20 14:30
92490503017	DGWC-20	Water	08/13/20 13:15	08/14/20 14:30
92490503018	DGWC-23	Water	08/13/20 13:10	08/14/20 14:30
92490503019	DGWC-42	Water	08/13/20 15:12	08/14/20 14:30
92490503020	DGWC-48	Water	08/13/20 09:46	08/14/20 14:30
92490503021	FB-2	Water	08/13/20 09:40	08/14/20 14:30
92490503022	DGWC-17	Water	08/14/20 10:15	08/14/20 14:30
92490503023	DGWC-21	Water	08/14/20 10:55	08/14/20 14:30
92490503024	DGWC-22	Water	08/14/20 11:53	08/14/20 14:30
92490503025	FB-3	Water	08/14/20 10:40	08/14/20 14:30
92490503026	EB-3	Water	08/14/20 12:45	08/14/20 14:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92490503001	DGWC-2	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490503002	DGWC-9	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490503003	DGWC-10	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490503004	DGWC-11	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490503005	DGWC-12	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490503006	DGWC-14	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490503007	DGWC-19	EPA 6020B	CW1	12	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92490503008	FB-1	EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92490503009	FD-1	EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
92490503010	DGWC-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
92490503011	DGWC-5	EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92490503012	DGWC-8	EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
92490503013	DGWC-13	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92490503014	DGWC-47	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92490503015	FD-2	Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
92490503016	DGWC-15	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	BRJ	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92490503017	DGWC-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92490503018	DGWC-23	Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490503019	DGWC-42	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92490503020	DGWC-48	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92490503021	FB-2	Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92490503022	DGWC-17	EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490503023	DGWC-21	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		92490503024	DGWC-22	EPA 6020B	CW1	12	PASI-GA
EPA 7470A	VB			1	PASI-GA
EPA 9315	LAL			1	PASI-PA
EPA 9320	VAL			1	PASI-PA
Total Radium Calculation	CMC			1	PASI-PA
EPA 300.0 Rev 2.1 1993	CDC			1	PASI-A
92490503025	FB-3			EPA 6020B	CW1
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92490503026	EB-3	Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-2 **Lab ID: 92490503001** Collected: 08/11/20 13:20 Received: 08/12/20 08:57 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.04	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 19:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 19:19	7440-38-2	
Barium	0.022	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 19:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 19:19	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 19:19	7440-43-9	
Chromium	0.00067J	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 19:19	7440-47-3	B
Cobalt	0.0064	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 19:19	7440-48-4	
Lead	0.00064J	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 19:19	7439-92-1	
Lithium	0.028J	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 19:19	7439-93-2	
Molybdenum	0.0020J	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 19:19	7439-98-7	
Selenium	0.0053J	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 19:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 19:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:33	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/14/20 01:36	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-9 **Lab ID: 92490503002** Collected: 08/11/20 16:05 Received: 08/12/20 08:57 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.00	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 19:25	7440-36-0	
Arsenic	0.022	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 19:25	7440-38-2	
Barium	0.016	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 19:25	7440-39-3	
Beryllium	0.0062	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 19:25	7440-41-7	
Cadmium	0.00059J	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 19:25	7440-43-9	
Chromium	0.00061J	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 19:25	7440-47-3	B
Cobalt	0.22	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 19:25	7440-48-4	
Lead	ND	mg/L	0.025	0.00018	5	08/13/20 10:10	08/18/20 16:02	7439-92-1	D3
Lithium	0.032	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 19:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 19:25	7439-98-7	
Selenium	0.11	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 19:25	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00072	5	08/13/20 10:10	08/18/20 16:02	7440-28-0	D3
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00026	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:36	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	1.3	mg/L	0.10	0.050	1		08/14/20 01:50	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-10 **Lab ID: 92490503003** Collected: 08/11/20 16:30 Received: 08/12/20 08:57 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.92	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 19:31	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 19:31	7440-38-2	
Barium	0.024	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 19:31	7440-39-3	
Beryllium	0.0066	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 19:31	7440-41-7	
Cadmium	0.00071J	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 19:31	7440-43-9	
Chromium	0.00097J	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 19:31	7440-47-3	B
Cobalt	0.11	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 19:31	7440-48-4	
Lead	0.000070J	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 19:31	7439-92-1	
Lithium	0.0033J	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 19:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 19:31	7439-98-7	
Selenium	0.023	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 19:31	7782-49-2	
Thallium	0.00037J	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 19:31	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:38	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	1.4	mg/L	0.10	0.050	1		08/14/20 02:04	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Sample: DGWC-11 **Lab ID: 92490503004** Collected: 08/11/20 12:15 Received: 08/12/20 08:57 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.68	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 19:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 19:36	7440-38-2	
Barium	0.064	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 19:36	7440-39-3	
Beryllium	0.00011J	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 19:36	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 19:36	7440-43-9	
Chromium	0.00061J	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 19:36	7440-47-3	B
Cobalt	0.00055J	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 19:36	7440-48-4	
Lead	0.00053J	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 19:36	7439-92-1	
Lithium	0.0028J	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 19:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 19:36	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 19:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 19:36	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:45	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/14/20 02:18	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Sample: DGWC-12 **Lab ID: 92490503005** Collected: 08/11/20 14:50 Received: 08/12/20 08:57 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.69	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 19:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 19:42	7440-38-2	
Barium	0.028	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 19:42	7440-39-3	
Beryllium	0.00024J	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 19:42	7440-41-7	
Cadmium	0.00038J	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 19:42	7440-43-9	
Chromium	0.00094J	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 19:42	7440-47-3	B
Cobalt	0.0060	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 19:42	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 19:42	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 19:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 19:42	7439-98-7	
Selenium	0.0019J	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 19:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 19:42	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:48	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/14/20 02:32	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-14 **Lab ID: 92490503006** Collected: 08/11/20 11:32 Received: 08/12/20 08:57 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

pH	5.73	Std. Units			1		08/20/20 17:21		
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6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 19:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 19:48	7440-38-2	
Barium	0.061	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 19:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 19:48	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 19:48	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 19:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 19:48	7440-48-4	
Lead	0.000096J	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 19:48	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 19:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 19:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 19:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 19:48	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:50	7439-97-6	
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300.0 IC Anions 28 Days

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

Fluoride	ND	mg/L	0.10	0.050	1		08/14/20 02:46	16984-48-8	
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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Sample: DGWC-19		Lab ID: 92490503007		Collected: 08/11/20 13:00		Received: 08/12/20 08:57		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.90	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 19:54	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 19:54	7440-38-2	
Barium	0.027	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 19:54	7440-39-3	
Beryllium	0.0020J	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 19:54	7440-41-7	
Cadmium	0.00030J	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 19:54	7440-43-9	
Chromium	0.0024J	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 19:54	7440-47-3	B
Cobalt	0.049	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 19:54	7440-48-4	
Lead	0.000053J	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 19:54	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 19:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 19:54	7439-98-7	
Selenium	0.0096J	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 19:54	7782-49-2	
Thallium	0.00059J	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 19:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:52	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.20	mg/L	0.10	0.050	1		08/14/20 03:00	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: FB-1		Lab ID: 92490503008		Collected: 08/11/20 11:55		Received: 08/12/20 08:57		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 19:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 19:59	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 19:59	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 19:59	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 19:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 19:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 19:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 19:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 19:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 19:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 19:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 19:59	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:55	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		08/14/20 03:42	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Sample: FD-1		Lab ID: 92490503009		Collected: 08/11/20 00:00		Received: 08/12/20 08:57		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/13/20 10:10	08/17/20 20:05	7440-36-0		
Arsenic	0.0027J	mg/L	0.0050	0.00078	1	08/13/20 10:10	08/17/20 20:05	7440-38-2		
Barium	0.024	mg/L	0.010	0.00071	1	08/13/20 10:10	08/17/20 20:05	7440-39-3		
Beryllium	0.0065	mg/L	0.0030	0.000046	1	08/13/20 10:10	08/17/20 20:05	7440-41-7		
Cadmium	0.00086J	mg/L	0.0025	0.00012	1	08/13/20 10:10	08/17/20 20:05	7440-43-9		
Chromium	0.0010J	mg/L	0.010	0.00055	1	08/13/20 10:10	08/17/20 20:05	7440-47-3	B	
Cobalt	0.11	mg/L	0.0050	0.00038	1	08/13/20 10:10	08/17/20 20:05	7440-48-4		
Lead	0.000067J	mg/L	0.0050	0.000036	1	08/13/20 10:10	08/17/20 20:05	7439-92-1		
Lithium	0.0034J	mg/L	0.030	0.00081	1	08/13/20 10:10	08/17/20 20:05	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	08/13/20 10:10	08/17/20 20:05	7439-98-7		
Selenium	0.025	mg/L	0.010	0.0016	1	08/13/20 10:10	08/17/20 20:05	7782-49-2		
Thallium	0.00038J	mg/L	0.0010	0.00014	1	08/13/20 10:10	08/17/20 20:05	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 13:57	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	1.5	mg/L	0.10	0.050	1		08/14/20 04:24	16984-48-8		

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-4 **Lab ID: 92490503010** Collected: 08/12/20 11:46 Received: 08/13/20 10:15 Matrix: Water

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

Field Data

Analytical Method:
Pace Analytical Services - Charlotte

pH **5.93** Std. Units 1 08/20/20 17:21

6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	08/17/20 16:46	08/20/20 18:57	7440-36-0
Arsenic	ND	mg/L	0.0050	0.00078	1	08/17/20 16:46	08/20/20 18:57	7440-38-2
Barium	0.036	mg/L	0.010	0.00071	1	08/17/20 16:46	08/20/20 18:57	7440-39-3
Beryllium	0.00024J	mg/L	0.0030	0.000046	1	08/17/20 16:46	08/20/20 18:57	7440-41-7
Cadmium	0.00080J	mg/L	0.0025	0.00012	1	08/17/20 16:46	08/20/20 18:57	7440-43-9
Chromium	ND	mg/L	0.010	0.00055	1	08/17/20 16:46	08/20/20 18:57	7440-47-3
Cobalt	0.0018J	mg/L	0.0050	0.00038	1	08/17/20 16:46	08/20/20 18:57	7440-48-4
Lead	ND	mg/L	0.0050	0.000036	1	08/17/20 16:46	08/20/20 18:57	7439-92-1
Lithium	0.0031J	mg/L	0.030	0.00081	1	08/17/20 16:46	08/20/20 18:57	7439-93-2
Molybdenum	0.0057J	mg/L	0.010	0.00069	1	08/17/20 16:46	08/20/20 18:57	7439-98-7
Selenium	ND	mg/L	0.010	0.0016	1	08/17/20 16:46	08/20/20 18:57	7782-49-2
Thallium	ND	mg/L	0.0010	0.00014	1	08/17/20 16:46	08/20/20 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 0.000078 1 08/14/20 08:10 08/14/20 13:59 7439-97-6

300.0 IC Anions 28 Days

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

Fluoride ND mg/L 0.10 0.050 1 08/15/20 21:48 16984-48-8

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-5 **Lab ID: 92490503011** Collected: 08/12/20 10:45 Received: 08/13/20 10:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.84	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/17/20 16:46	08/20/20 19:32	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.00078	1	08/17/20 16:46	08/20/20 19:32	7440-38-2	
Barium	0.017	mg/L	0.010	0.00071	1	08/17/20 16:46	08/20/20 19:32	7440-39-3	
Beryllium	0.0081	mg/L	0.0030	0.000046	1	08/17/20 16:46	08/20/20 19:32	7440-41-7	
Cadmium	0.00079J	mg/L	0.0025	0.00012	1	08/17/20 16:46	08/20/20 19:32	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/17/20 16:46	08/20/20 19:32	7440-47-3	
Cobalt	0.021	mg/L	0.0050	0.00038	1	08/17/20 16:46	08/20/20 19:32	7440-48-4	
Lead	0.000063J	mg/L	0.0050	0.000036	1	08/17/20 16:46	08/20/20 19:32	7439-92-1	
Lithium	0.0067J	mg/L	0.030	0.00081	1	08/17/20 16:46	08/20/20 19:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/17/20 16:46	08/20/20 19:32	7439-98-7	
Selenium	0.011	mg/L	0.010	0.0016	1	08/17/20 16:46	08/20/20 19:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/17/20 16:46	08/20/20 19:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00017J	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 14:02	7439-97-6	
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		08/15/20 22:02	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-8 **Lab ID: 92490503012** Collected: 08/12/20 10:15 Received: 08/13/20 10:15 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.36	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/17/20 16:46	08/20/20 19:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/17/20 16:46	08/20/20 19:37	7440-38-2	
Barium	0.034	mg/L	0.010	0.00071	1	08/17/20 16:46	08/20/20 19:37	7440-39-3	
Beryllium	0.0018J	mg/L	0.0030	0.000046	1	08/17/20 16:46	08/20/20 19:37	7440-41-7	
Cadmium	0.0021J	mg/L	0.0025	0.00012	1	08/17/20 16:46	08/20/20 19:37	7440-43-9	
Chromium	0.0028J	mg/L	0.010	0.00055	1	08/17/20 16:46	08/20/20 19:37	7440-47-3	
Cobalt	0.053	mg/L	0.0050	0.00038	1	08/17/20 16:46	08/20/20 19:37	7440-48-4	
Lead	0.00070J	mg/L	0.0050	0.000036	1	08/17/20 16:46	08/20/20 19:37	7439-92-1	
Lithium	0.0058J	mg/L	0.030	0.00081	1	08/17/20 16:46	08/20/20 19:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/17/20 16:46	08/20/20 19:37	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/17/20 16:46	08/20/20 19:37	7782-49-2	
Thallium	0.00023J	mg/L	0.0010	0.00014	1	08/17/20 16:46	08/20/20 19:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000079J	mg/L	0.00020	0.000078	1	08/14/20 08:10	08/14/20 14:14	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.056J	mg/L	0.10	0.050	1		08/15/20 22:16	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-13		Lab ID: 92490503013		Collected: 08/12/20 11:40		Received: 08/13/20 10:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.68	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/17/20 16:46	08/20/20 19:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/17/20 16:46	08/20/20 19:43	7440-38-2	
Barium	0.032	mg/L	0.010	0.00071	1	08/17/20 16:46	08/20/20 19:43	7440-39-3	
Beryllium	0.000078J	mg/L	0.0030	0.000046	1	08/17/20 16:46	08/20/20 19:43	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/17/20 16:46	08/20/20 19:43	7440-43-9	
Chromium	0.00074J	mg/L	0.010	0.00055	1	08/17/20 16:46	08/20/20 19:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/17/20 16:46	08/20/20 19:43	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/17/20 16:46	08/20/20 19:43	7439-92-1	
Lithium	0.0034J	mg/L	0.030	0.00081	1	08/17/20 16:46	08/20/20 19:43	7439-93-2	
Molybdenum	0.012	mg/L	0.010	0.00069	1	08/17/20 16:46	08/20/20 19:43	7439-98-7	
Selenium	0.0038J	mg/L	0.010	0.0016	1	08/17/20 16:46	08/20/20 19:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/17/20 16:46	08/20/20 19:43	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	0.000078	1	08/14/20 08:10	08/14/20 14:23	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.051J	mg/L	0.10	0.050	1		08/15/20 22:30	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-47 **Lab ID: 92490503014** Collected: 08/12/20 10:25 Received: 08/13/20 10:15 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

pH **4.43** Std. Units 1 08/20/20 17:21

6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	08/17/20 16:46	08/20/20 19:49	7440-36-0	
Arsenic	0.00081J	mg/L	0.0050	0.00078	1	08/17/20 16:46	08/20/20 19:49	7440-38-2	
Barium	0.016	mg/L	0.010	0.00071	1	08/17/20 16:46	08/20/20 19:49	7440-39-3	
Beryllium	0.0068	mg/L	0.0030	0.000046	1	08/17/20 16:46	08/20/20 19:49	7440-41-7	
Cadmium	0.0010J	mg/L	0.0025	0.00012	1	08/17/20 16:46	08/20/20 19:49	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/17/20 16:46	08/20/20 19:49	7440-47-3	
Cobalt	0.21	mg/L	0.0050	0.00038	1	08/17/20 16:46	08/20/20 19:49	7440-48-4	
Lead	0.00040J	mg/L	0.0050	0.000036	1	08/17/20 16:46	08/20/20 19:49	7439-92-1	
Lithium	0.054	mg/L	0.030	0.00081	1	08/17/20 16:46	08/20/20 19:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/17/20 16:46	08/20/20 19:49	7439-98-7	
Selenium	0.0020J	mg/L	0.010	0.0016	1	08/17/20 16:46	08/20/20 19:49	7782-49-2	
Thallium	0.00018J	mg/L	0.0010	0.00014	1	08/17/20 16:46	08/20/20 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 0.000078 1 08/14/20 08:10 08/14/20 14:26 7439-97-6

300.0 IC Anions 28 Days

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

Fluoride **0.22** mg/L 0.10 0.050 1 08/15/20 22:45 16984-48-8

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: FD-2		Lab ID: 92490503015		Collected: 08/12/20 00:00	Received: 08/13/20 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/17/20 16:46	08/20/20 19:55	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	08/17/20 16:46	08/20/20 19:55	7440-38-2		
Barium	0.034	mg/L	0.010	0.00071	1	08/17/20 16:46	08/20/20 19:55	7440-39-3		
Beryllium	0.0019J	mg/L	0.0030	0.000046	1	08/17/20 16:46	08/20/20 19:55	7440-41-7		
Cadmium	0.0023J	mg/L	0.0025	0.00012	1	08/17/20 16:46	08/20/20 19:55	7440-43-9		
Chromium	0.0025J	mg/L	0.010	0.00055	1	08/17/20 16:46	08/20/20 19:55	7440-47-3		
Cobalt	0.055	mg/L	0.0050	0.00038	1	08/17/20 16:46	08/20/20 19:55	7440-48-4		
Lead	0.00049J	mg/L	0.0050	0.000036	1	08/17/20 16:46	08/20/20 19:55	7439-92-1		
Lithium	0.0057J	mg/L	0.030	0.00081	1	08/17/20 16:46	08/20/20 19:55	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	08/17/20 16:46	08/20/20 19:55	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	08/17/20 16:46	08/20/20 19:55	7782-49-2		
Thallium	0.00022J	mg/L	0.0010	0.00014	1	08/17/20 16:46	08/20/20 19:55	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	08/14/20 08:10	08/14/20 14:28	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	0.075J	mg/L	0.10	0.050	1		08/15/20 22:59	16984-48-8		

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-15 **Lab ID: 92490503016** Collected: 08/13/20 10:40 Received: 08/14/20 14:30 Matrix: Water

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

Analytical Method:
 Pace Analytical Services - Charlotte

pH	6.58	Std. Units			1		08/20/20 17:21		
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6020 MET ICPMS

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

Antimony	0.00073J	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 18:42	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 18:42	7440-38-2	
Barium	0.060	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 18:42	7440-39-3	
Beryllium	0.00022J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 18:42	7440-41-7	
Cadmium	0.00013J	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 18:42	7440-43-9	
Chromium	0.0048J	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 18:42	7440-47-3	
Cobalt	0.0024J	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 18:42	7440-48-4	
Lead	0.0012J	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 18:42	7439-92-1	
Lithium	0.0089J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 18:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 18:42	7439-98-7	
Selenium	0.0018J	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 18:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 18:42	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 11:58	7439-97-6	
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300.0 IC Anions 28 Days

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

Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 01:00	16984-48-8	
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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-20 **Lab ID: 92490503017** Collected: 08/13/20 13:15 Received: 08/14/20 14:30 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

pH **4.36** Std. Units 1 08/20/20 17:21

6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 19:00	7440-36-0	
Arsenic	0.014	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 19:00	7440-38-2	
Barium	0.019	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 19:00	7440-39-3	
Beryllium	0.0063	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 19:00	7440-41-7	
Cadmium	0.0021J	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 19:00	7440-43-9	
Chromium	0.0023J	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 19:00	7440-47-3	
Cobalt	0.73	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 19:00	7440-48-4	
Lead	0.00044J	mg/L	0.025	0.00018	5	08/18/20 18:30	08/20/20 16:26	7439-92-1	D3
Lithium	0.012J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 19:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 19:00	7439-98-7	
Selenium	0.091	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 19:00	7782-49-2	
Thallium	0.0016J	mg/L	0.0050	0.00072	5	08/18/20 18:30	08/20/20 16:26	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 0.000078 1 08/18/20 12:00 08/19/20 12:00 7439-97-6

300.0 IC Anions 28 Days

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

Fluoride **0.90** mg/L 0.10 0.050 1 08/20/20 01:15 16984-48-8

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-23	Lab ID: 92490503018	Collected: 08/13/20 13:10	Received: 08/14/20 14:30	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.00	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 19:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 19:05	7440-38-2	
Barium	0.027	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 19:05	7440-39-3	
Beryllium	0.00041J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 19:05	7440-41-7	
Cadmium	0.00027J	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 19:05	7440-43-9	
Chromium	0.00085J	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 19:05	7440-47-3	
Cobalt	0.00048J	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 19:05	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 19:05	7439-92-1	
Lithium	0.0052J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 19:05	7439-93-2	
Molybdenum	0.013	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 19:05	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 19:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 19:05	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00014J	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 12:03	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.10	mg/L	0.10	0.050	1		08/20/20 01:29	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-42 **Lab ID: 92490503019** Collected: 08/13/20 15:12 Received: 08/14/20 14:30 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

pH	5.34	Std. Units			1		08/20/20 17:21		
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6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 19:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 19:11	7440-38-2	
Barium	0.027	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 19:11	7440-39-3	
Beryllium	0.0026J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 19:11	7440-41-7	
Cadmium	0.0013J	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 19:11	7440-43-9	
Chromium	0.0021J	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 19:11	7440-47-3	
Cobalt	0.025	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 19:11	7440-48-4	
Lead	0.0016J	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 19:11	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 19:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 19:11	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 19:11	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 12:05	7439-97-6	
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300.0 IC Anions 28 Days

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

Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 01:44	16984-48-8	
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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-48 **Lab ID: 92490503020** Collected: 08/13/20 09:46 Received: 08/14/20 14:30 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

pH	4.26	Std. Units			1		08/20/20 17:21		
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6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 19:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 19:17	7440-38-2	
Barium	0.013	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 19:17	7440-39-3	
Beryllium	0.0071	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 19:17	7440-41-7	
Cadmium	0.0028	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 19:17	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 19:17	7440-47-3	
Cobalt	0.35	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 19:17	7440-48-4	
Lead	0.00092J	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 19:17	7439-92-1	
Lithium	0.098	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 19:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 19:17	7439-98-7	
Selenium	0.0029J	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 19:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 19:17	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	08/18/20 12:00	08/19/20 12:07	7439-97-6	
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300.0 IC Anions 28 Days

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

Fluoride	0.47	mg/L	0.10	0.050	1		08/20/20 01:59	16984-48-8	
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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Sample: FB-2		Lab ID: 92490503021		Collected: 08/13/20 09:40		Received: 08/14/20 14:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 19:23	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 19:23	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 19:23	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 19:23	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 19:23	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 19:23	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 19:23	7440-48-4		
Lead	0.00017J	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 19:23	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 19:23	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 19:23	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 19:23	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 19:23	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 12:14	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 02:14	16984-48-8		

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-17 **Lab ID: 92490503022** Collected: 08/14/20 10:15 Received: 08/14/20 14:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.01	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 19:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 19:28	7440-38-2	
Barium	0.046	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 19:28	7440-39-3	
Beryllium	0.00064J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 19:28	7440-41-7	
Cadmium	0.00029J	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 19:28	7440-43-9	
Chromium	0.0033J	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 19:28	7440-47-3	
Cobalt	0.026	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 19:28	7440-48-4	
Lead	0.00017J	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 19:28	7439-92-1	
Lithium	0.0015J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 19:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 19:28	7439-98-7	
Selenium	0.0084J	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 19:28	7782-49-2	
Thallium	0.00019J	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 19:28	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000098J	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 12:17	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.069J	mg/L	0.10	0.050	1		08/20/20 02:29	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-21 **Lab ID: 92490503023** Collected: 08/14/20 10:55 Received: 08/14/20 14:30 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

pH	5.66	Std. Units			1		08/20/20 17:21		
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6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 19:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 19:34	7440-38-2	
Barium	0.027	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 19:34	7440-39-3	
Beryllium	0.00020J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 19:34	7440-41-7	
Cadmium	0.00054J	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 19:34	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 19:34	7440-47-3	
Cobalt	0.0098	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 19:34	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 19:34	7439-92-1	
Lithium	0.0058J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 19:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 19:34	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 19:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 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	08/18/20 12:00	08/19/20 12:19	7439-97-6	
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300.0 IC Anions 28 Days

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

Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 03:14	16984-48-8	
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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWC-22 Lab ID: 92490503024 Collected: 08/14/20 11:53 Received: 08/14/20 14:30 Matrix: Water									
Field Data Analytical Method: Pace Analytical Services - Charlotte									
pH	5.76	Std. Units			1		08/20/20 17:21		
6020 MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 19:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 19:40	7440-38-2	
Barium	0.035	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 19:40	7440-39-3	
Beryllium	0.00016J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 19:40	7440-41-7	
Cadmium	0.00057J	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 19:40	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 19:40	7440-47-3	
Cobalt	0.0087	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 19:40	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 19:40	7439-92-1	
Lithium	0.0039J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 19:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 19:40	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 19:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 19:40	7440-28-0	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 12:22	7439-97-6	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 03:29	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Sample: FB-3 Lab ID: 92490503025 Collected: 08/14/20 10:40 Received: 08/14/20 14:30 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 19:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 19:45	7440-38-2	
Barium	0.00087J	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 19:45	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 19:45	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 19:45	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 19:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 19:45	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 19:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 19:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 19:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 19:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 19:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 12:24	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 05:52	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: **EB-3** Lab ID: **92490503026** Collected: 08/14/20 12:45 Received: 08/14/20 14:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 19:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 19:51	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 19:51	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 19:51	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 19:51	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 19:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 19:51	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 19:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 19:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 19:51	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 19:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 19:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 12:26	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 06:06	16984-48-8	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

QC Batch: 559731 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92490503001, 92490503002, 92490503003, 92490503004, 92490503005, 92490503006, 92490503007, 92490503008, 92490503009

METHOD BLANK: 2969713 Matrix: Water
 Associated Lab Samples: 92490503001, 92490503002, 92490503003, 92490503004, 92490503005, 92490503006, 92490503007, 92490503008, 92490503009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/17/20 18:05	
Arsenic	mg/L	ND	0.0050	0.00078	08/17/20 18:05	
Barium	mg/L	ND	0.010	0.00071	08/17/20 18:05	
Beryllium	mg/L	ND	0.0030	0.000046	08/17/20 18:05	
Cadmium	mg/L	ND	0.0025	0.00012	08/17/20 18:05	
Chromium	mg/L	0.00061J	0.010	0.00055	08/17/20 18:05	
Cobalt	mg/L	ND	0.0050	0.00038	08/17/20 18:05	
Lead	mg/L	ND	0.0050	0.000036	08/17/20 18:05	
Lithium	mg/L	ND	0.030	0.00081	08/17/20 18:05	
Molybdenum	mg/L	ND	0.010	0.00069	08/17/20 18:05	
Selenium	mg/L	ND	0.010	0.0016	08/17/20 18:05	
Thallium	mg/L	ND	0.0010	0.00014	08/17/20 18:05	

LABORATORY CONTROL SAMPLE: 2969714

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	0.099	99	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2973381 2973382

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result								
Antimony	mg/L	0.0013J	0.1	0.1	0.11	0.11	110	105	75-125	4	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	4	20		
Barium	mg/L	0.041	0.1	0.1	0.15	0.15	112	106	75-125	4	20		

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameter	Units	2973381		2973382		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92490488001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Beryllium	mg/L	0.00013J	0.1	0.1	0.11	0.10	105	103	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Chromium	mg/L	0.0016J	0.1	0.1	0.10	0.096	102	95	75-125	7	20		
Cobalt	mg/L	0.0012J	0.1	0.1	0.10	0.097	101	96	75-125	5	20		
Lead	mg/L	0.00030J	0.1	0.1	0.11	0.10	106	101	75-125	5	20		
Lithium	mg/L	0.0019J	0.1	0.1	0.11	0.11	106	104	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.097	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	105	102	75-125	3	20		

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

QC Batch: 560481 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92490503010, 92490503011, 92490503012, 92490503013, 92490503014, 92490503015

METHOD BLANK: 2973740 Matrix: Water

Associated Lab Samples: 92490503010, 92490503011, 92490503012, 92490503013, 92490503014, 92490503015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/20/20 17:20	
Arsenic	mg/L	ND	0.0050	0.00078	08/20/20 17:20	
Barium	mg/L	ND	0.010	0.00071	08/20/20 17:20	
Beryllium	mg/L	ND	0.0030	0.000046	08/20/20 17:20	
Cadmium	mg/L	ND	0.0025	0.00012	08/20/20 17:20	
Chromium	mg/L	ND	0.010	0.00055	08/20/20 17:20	
Cobalt	mg/L	ND	0.0050	0.00038	08/20/20 17:20	
Lead	mg/L	ND	0.0050	0.000036	08/20/20 17:20	
Lithium	mg/L	ND	0.030	0.00081	08/20/20 17:20	
Molybdenum	mg/L	ND	0.010	0.00069	08/20/20 17:20	
Selenium	mg/L	ND	0.010	0.0016	08/20/20 17:20	
Thallium	mg/L	ND	0.0010	0.00014	08/20/20 17:20	

LABORATORY CONTROL SAMPLE: 2973741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2973742 2973743

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92490503010 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	108	103	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	102	97	75-125	5	20	
Barium	mg/L	0.036	0.1	0.1	0.14	0.13	107	91	75-125	12	20	
Beryllium	mg/L	0.00024J	0.1	0.1	0.090	0.086	90	86	75-125	4	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameter	Units	2973742		2973743		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92490503010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Cadmium	mg/L	0.00080J	0.1	0.1	0.098	0.095	97	94	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.094	98	94	75-125	5	20	
Cobalt	mg/L	0.0018J	0.1	0.1	0.098	0.095	96	93	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.092	97	92	75-125	5	20	
Lithium	mg/L	0.0031J	0.1	0.1	0.095	0.092	92	88	75-125	4	20	
Molybdenum	mg/L	0.0057J	0.1	0.1	0.11	0.10	102	97	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.094	98	94	75-125	4	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

QC Batch: 560739 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92490503016, 92490503017, 92490503018, 92490503019, 92490503020, 92490503021, 92490503022, 92490503023, 92490503024, 92490503025, 92490503026

METHOD BLANK: 2974806 Matrix: Water
 Associated Lab Samples: 92490503016, 92490503017, 92490503018, 92490503019, 92490503020, 92490503021, 92490503022, 92490503023, 92490503024, 92490503025, 92490503026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/19/20 17:51	
Arsenic	mg/L	ND	0.0050	0.00078	08/19/20 17:51	
Barium	mg/L	ND	0.010	0.00071	08/19/20 17:51	
Beryllium	mg/L	ND	0.0030	0.000046	08/19/20 17:51	
Cadmium	mg/L	ND	0.0025	0.00012	08/19/20 17:51	
Chromium	mg/L	ND	0.010	0.00055	08/19/20 17:51	
Cobalt	mg/L	ND	0.0050	0.00038	08/19/20 17:51	
Lead	mg/L	ND	0.0050	0.000036	08/19/20 17:51	
Lithium	mg/L	ND	0.030	0.00081	08/19/20 17:51	
Molybdenum	mg/L	ND	0.010	0.00069	08/19/20 17:51	
Selenium	mg/L	ND	0.010	0.0016	08/19/20 17:51	
Thallium	mg/L	ND	0.0010	0.00014	08/19/20 17:51	

LABORATORY CONTROL SAMPLE: 2974807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2974808 2974809

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92490942006 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	114	109	75-125	5	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20		
Barium	mg/L	0.088	0.1	0.1	0.22	0.21	131	119	75-125	6	20	M1	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameter	Units	2974808		2974809		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92490942006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Beryllium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Cadmium	mg/L	0.00021J	0.1	0.1	0.10	0.098	99	98	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	0	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.098	102	97	75-125	4	20		
Molybdenum	mg/L	0.19	0.1	0.1	0.31	0.29	122	105	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.093	99	92	75-125	7	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

QC Batch: 559929 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92490503001, 92490503002, 92490503003, 92490503004, 92490503005, 92490503006, 92490503007, 92490503008, 92490503009, 92490503010, 92490503011

METHOD BLANK: 2971190 Matrix: Water
 Associated Lab Samples: 92490503001, 92490503002, 92490503003, 92490503004, 92490503005, 92490503006, 92490503007, 92490503008, 92490503009, 92490503010, 92490503011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	08/14/20 12:55	

LABORATORY CONTROL SAMPLE: 2971191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2971192 2971193

Parameter	Units	92489844052 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	0.0025	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

QC Batch: 559932	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92490503012, 92490503013, 92490503014, 92490503015

METHOD BLANK: 2971194 Matrix: Water
 Associated Lab Samples: 92490503012, 92490503013, 92490503014, 92490503015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	08/14/20 14:09	

LABORATORY CONTROL SAMPLE: 2971195

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2971196 2971197

Parameter	Units	2971196		2971197		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.000079J	0.0025	0.0026	0.0026	102	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

QC Batch:	560631	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92490503016, 92490503017, 92490503018, 92490503019, 92490503020, 92490503021, 92490503022, 92490503023, 92490503024, 92490503025, 92490503026

METHOD BLANK: 2974348 Matrix: Water

Associated Lab Samples: 92490503016, 92490503017, 92490503018, 92490503019, 92490503020, 92490503021, 92490503022, 92490503023, 92490503024, 92490503025, 92490503026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	08/19/20 11:20	

LABORATORY CONTROL SAMPLE: 2974349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2974350 2974351

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92490831003 Result	Spike Conc.	Spike Conc.	Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0025	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

QC Batch: 559792 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: 92490503001, 92490503002, 92490503003, 92490503004, 92490503005, 92490503006, 92490503007, 92490503008, 92490503009

METHOD BLANK: 2970272 Matrix: Water
 Associated Lab Samples: 92490503001, 92490503002, 92490503003, 92490503004, 92490503005, 92490503006, 92490503007, 92490503008, 92490503009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/13/20 23:31	

LABORATORY CONTROL SAMPLE: 2970273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2970274 2970275

Parameter	Units	92490488001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.7	2.6	106	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2970276 2970277

Parameter	Units	92490503008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.6	2.4	102	98	90-110	4	10	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

QC Batch: 560228 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: 92490503010, 92490503011, 92490503012, 92490503013, 92490503014, 92490503015

METHOD BLANK: 2972550 Matrix: Water
 Associated Lab Samples: 92490503010, 92490503011, 92490503012, 92490503013, 92490503014, 92490503015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/15/20 19:39	

LABORATORY CONTROL SAMPLE: 2972551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2972552 2972553

Parameter	Units	2972552		2972553		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Fluoride	mg/L	0.52	2.5	2.5	3.0	3.2	100	105	90-110	5	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2972554 2972555

Parameter	Units	2972554		2972555		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Fluoride	mg/L	0.084J	2.5	2.5	2.2	2.4	85	91	90-110	6	10 M1

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

QC Batch: 560825 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: 92490503016, 92490503017, 92490503018, 92490503019, 92490503020, 92490503021, 92490503022, 92490503023, 92490503024

METHOD BLANK: 2975208 Matrix: Water
 Associated Lab Samples: 92490503016, 92490503017, 92490503018, 92490503019, 92490503020, 92490503021, 92490503022, 92490503023, 92490503024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/19/20 19:46	

LABORATORY CONTROL SAMPLE: 2975209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2975210 2975211

Parameter	Units	92490043008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.88	2.5	2.5	3.5	3.6	106	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2975212 2975213

Parameter	Units	92490043018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	107	107	90-110	0	10	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

QC Batch: 561129 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: 92490503025, 92490503026

METHOD BLANK: 2976672 Matrix: Water
 Associated Lab Samples: 92490503025, 92490503026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/20/20 00:59	

LABORATORY CONTROL SAMPLE: 2976673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2976674 2976675

Parameter	Units	92491362001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Fluoride	mg/L	ND	2.5	2.5	2.9	2.9	113	115	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2976676 2976677

Parameter	Units	92491256001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Fluoride	mg/L	0.28	2.5	2.5	2.8	2.8	99	99	90-110	0	10	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.613 ± 0.269 (0.316) C:81% T:NA	pCi/L	08/24/20 07:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.755 ± 0.427 (0.776) C:68% T:85%	pCi/L	08/27/20 11:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.37 ± 0.696 (1.09)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-9 Lab ID: 92490503002 Collected: 08/11/20 16:05 Received: 08/12/20 08:57 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.349 ± 0.203 (0.300) C:89% T:NA	pCi/L	08/24/20 07:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.470 ± 0.406 (0.822) C:66% T:90%	pCi/L	08/27/20 11:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.819 ± 0.609 (1.12)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-10 Lab ID: 92490503003 Collected: 08/11/20 16:30 Received: 08/12/20 08:57 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.412 ± 0.223 (0.307) C:86% T:NA	pCi/L	08/24/20 07:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.04 ± 0.453 (0.734) C:67% T:85%	pCi/L	08/27/20 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.45 ± 0.676 (1.04)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-11 Lab ID: 92490503004 Collected: 08/11/20 12:15 Received: 08/12/20 08:57 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.104 ± 0.123 (0.243) C:98% T:NA	pCi/L	08/24/20 07:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.915 ± 0.417 (0.679) C:68% T:87%	pCi/L	08/27/20 11:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.02 ± 0.540 (0.922)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-12 Lab ID: 92490503005 Collected: 08/11/20 14:50 Received: 08/12/20 08:57 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.234 ± 0.189 (0.334) C:78% T:NA	pCi/L	08/24/20 07:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.536 ± 0.398 (0.785) C:69% T:92%	pCi/L	08/27/20 11:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.770 ± 0.587 (1.12)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-14 Lab ID: 92490503006 Collected: 08/11/20 11:32 Received: 08/12/20 08:57 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.298 ± 0.218 (0.388) C:84% T:NA	pCi/L	08/24/20 07:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.875 ± 0.449 (0.800) C:72% T:85%	pCi/L	08/27/20 11:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.17 ± 0.667 (1.19)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-19 Lab ID: 92490503007 Collected: 08/11/20 13:00 Received: 08/12/20 08:57 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.265 ± 0.175 (0.275) C:97% T:NA	pCi/L	08/24/20 07:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.458 ± 0.406 (0.826) C:67% T:87%	pCi/L	08/27/20 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.723 ± 0.581 (1.10)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-1 Lab ID: 92490503008 Collected: 08/11/20 11:55 Received: 08/12/20 08:57 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.124 ± 0.131 (0.248) C:95% T:NA	pCi/L	08/24/20 07:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.129 ± 0.420 (0.944) C:64% T:85%	pCi/L	08/27/20 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.253 ± 0.551 (1.19)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: FD-1 **Lab ID: 92490503009** Collected: 08/11/20 00:00 Received: 08/12/20 08:57 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.508 ± 0.244 (0.312) C:87% T:NA	pCi/L	08/24/20 07:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.781 ± 0.473 (0.890) C:65% T:87%	pCi/L	08/27/20 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.29 ± 0.717 (1.20)	pCi/L	09/04/20 08:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-4 Lab ID: 92490503010 Collected: 08/12/20 11:46 Received: 08/13/20 10:15 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.708 ± 0.281 (0.321) C:93% T:NA	pCi/L	08/24/20 06:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.24 ± 0.531 (0.875) C:62% T:91%	pCi/L	08/27/20 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.95 ± 0.812 (1.20)	pCi/L	09/04/20 08:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-5 **Lab ID: 92490503011** Collected: 08/12/20 10:45 Received: 08/13/20 10:15 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.362 ± 0.199 (0.272) C:92% T:NA	pCi/L	08/24/20 06:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.772 ± 0.451 (0.837) C:64% T:91%	pCi/L	08/27/20 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.13 ± 0.650 (1.11)	pCi/L	09/04/20 08:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-8 **Lab ID: 92490503012** Collected: 08/12/20 10:15 Received: 08/13/20 10:15 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.247 ± 0.233 (0.458) C:78% T:NA	pCi/L	08/24/20 06:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.474 ± 0.410 (0.827) C:66% T:86%	pCi/L	08/27/20 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.721 ± 0.643 (1.29)	pCi/L	09/04/20 08:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-13 Lab ID: 92490503013 Collected: 08/12/20 11:40 Received: 08/13/20 10:15 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.703 ± 0.290 (0.308) C:86% T:NA	pCi/L	08/24/20 06:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.926 ± 0.530 (0.990) C:63% T:88%	pCi/L	08/27/20 11:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.63 ± 0.820 (1.30)	pCi/L	09/04/20 08:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-47 **Lab ID: 92490503014** Collected: 08/12/20 10:25 Received: 08/13/20 10:15 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.870 ± 0.304 (0.227) C:95% T:NA	pCi/L	08/24/20 06:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.69 ± 0.594 (0.865) C:65% T:88%	pCi/L	08/27/20 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.56 ± 0.898 (1.09)	pCi/L	09/04/20 08:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.228 ± 0.176 (0.279) C:77% T:NA	pCi/L	08/24/20 06:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.398 ± 0.390 (0.802) C:62% T:89%	pCi/L	08/27/20 11:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.626 ± 0.566 (1.08)	pCi/L	09/04/20 08:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-15 Lab ID: 92490503016 Collected: 08/13/20 10:40 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.97 ± 0.631 (0.506) C:73% T:NA	pCi/L	09/01/20 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.61 ± 0.793 (1.38) C:64% T:54%	pCi/L	09/08/20 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.58 ± 1.42 (1.89)	pCi/L	09/09/20 14:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-20 Lab ID: 92490503017 Collected: 08/13/20 13:15 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.379 ± 0.282 (0.470) C:83% T:NA	pCi/L	09/01/20 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.39 ± 0.561 (0.893) C:67% T:82%	pCi/L	09/08/20 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.77 ± 0.843 (1.36)	pCi/L	09/09/20 14:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-23 Lab ID: 92490503018 Collected: 08/13/20 13:10 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.504 ± 0.320 (0.472) C:75% T:NA	pCi/L	09/01/20 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.971 ± 0.580 (1.09) C:63% T:75%	pCi/L	09/08/20 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.48 ± 0.900 (1.56)	pCi/L	09/09/20 14:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: DGWC-42 **Lab ID: 92490503019** Collected: 08/13/20 15:12 Received: 08/14/20 14:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.248 ± 0.238 (0.434) C:82% T:NA	pCi/L	09/01/20 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.977 ± 0.485 (0.836) C:64% T:82%	pCi/L	09/08/20 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.23 ± 0.723 (1.27)	pCi/L	09/09/20 14:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-48 Lab ID: 92490503020 Collected: 08/13/20 09:46 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.717 ± 0.337 (0.368) C:88% T:NA	pCi/L	09/01/20 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.02 ± 0.512 (0.893) C:65% T:80%	pCi/L	09/08/20 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.74 ± 0.849 (1.26)	pCi/L	09/09/20 14:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Sample: FB-2 **Lab ID: 92490503021** Collected: 08/13/20 09:40 Received: 08/14/20 14:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0253 ± 0.128 (0.401) C:90% T:NA	pCi/L	09/01/20 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.691 ± 0.511 (1.01) C:64% T:81%	pCi/L	09/08/20 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.691 ± 0.639 (1.41)	pCi/L	09/09/20 14:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-17 Lab ID: 92490503022 Collected: 08/14/20 10:15 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0503 ± 0.236 (0.663) C:78% T:NA	pCi/L	09/01/20 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.804 ± 0.508 (0.960) C:66% T:76%	pCi/L	09/08/20 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.804 ± 0.744 (1.62)	pCi/L	09/09/20 14:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-21 Lab ID: 92490503023 Collected: 08/14/20 10:55 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.118 ± 0.238 (0.553) C:74% T:NA	pCi/L	09/01/20 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.484 ± 0.393 (0.781) C:65% T:84%	pCi/L	09/08/20 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.602 ± 0.631 (1.33)	pCi/L	09/09/20 14:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-22 Lab ID: 92490503024 Collected: 08/14/20 11:53 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.200 ± 0.224 (0.437) C:82% T:NA	pCi/L	09/01/20 07:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.63 ± 0.583 (0.812) C:61% T:81%	pCi/L	09/08/20 11:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.83 ± 0.807 (1.25)	pCi/L	09/09/20 14:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-3 Lab ID: 92490503025 Collected: 08/14/20 10:40 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.201 ± 0.279 (0.601) C:83% T:NA	pCi/L	09/02/20 07:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.05 ± 0.750 (1.49) C:59% T:64%	pCi/L	09/08/20 11:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.25 ± 1.03 (2.09)	pCi/L	09/09/20 14:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-3 Lab ID: 92490503026 Collected: 08/14/20 12:45 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.00266 ± 0.205 (0.567) C:78% T:NA	pCi/L	09/02/20 07:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0837 ± 0.431 (0.975) C:63% T:82%	pCi/L	09/08/20 11:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0864 ± 0.636 (1.54)	pCi/L	09/09/20 14:53	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

QC Batch:	411433	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92490503016, 92490503017, 92490503018, 92490503019, 92490503020, 92490503021, 92490503022, 92490503023, 92490503024, 92490503025, 92490503026

METHOD BLANK: 1990338 Matrix: Water

Associated Lab Samples: 92490503016, 92490503017, 92490503018, 92490503019, 92490503020, 92490503021, 92490503022, 92490503023, 92490503024, 92490503025, 92490503026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.527 ± 0.407 (0.796) C:61% T:86%	pCi/L	09/08/20 11:52	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

QC Batch: 410124

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92490503001, 92490503002, 92490503003, 92490503004, 92490503005, 92490503006, 92490503007, 92490503008, 92490503009, 92490503010, 92490503011, 92490503012, 92490503013, 92490503014, 92490503015

METHOD BLANK: 1984702

Matrix: Water

Associated Lab Samples: 92490503001, 92490503002, 92490503003, 92490503004, 92490503005, 92490503006, 92490503007, 92490503008, 92490503009, 92490503010, 92490503011, 92490503012, 92490503013, 92490503014, 92490503015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.731 ± 0.425 (0.763) C:63% T:81%	pCi/L	08/27/20 11:50	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

QC Batch: 411373	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92490503025, 92490503026

METHOD BLANK: 1989993 Matrix: Water

Associated Lab Samples: 92490503025, 92490503026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0671 ± 0.195 (0.481) C:88% T:NA	pCi/L	09/02/20 07:31	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

QC Batch:	410046	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92490503001, 92490503002, 92490503003, 92490503004, 92490503005, 92490503006, 92490503007, 92490503008, 92490503009, 92490503010, 92490503011, 92490503012, 92490503013, 92490503014, 92490503015

METHOD BLANK: 1984358 Matrix: Water

Associated Lab Samples: 92490503001, 92490503002, 92490503003, 92490503004, 92490503005, 92490503006, 92490503007, 92490503008, 92490503009, 92490503010, 92490503011, 92490503012, 92490503013, 92490503014, 92490503015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0476 ± 0.101 (0.237) C:93% T:NA	pCi/L	08/24/20 07:55	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

QC Batch:	411372	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92490503016, 92490503017, 92490503018, 92490503019, 92490503020, 92490503021, 92490503022, 92490503023, 92490503024

METHOD BLANK: 1989991 Matrix: Water

Associated Lab Samples: 92490503016, 92490503017, 92490503018, 92490503019, 92490503020, 92490503021, 92490503022, 92490503023, 92490503024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0430 ± 0.0800 (0.185) C:87% T:NA	pCi/L	08/31/20 19:25	

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QUALIFIERS

Project: PLANT MCDONOUGH AP-2, 3/4

Pace Project No.: 92490503

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

B Analyte was detected in the associated method blank.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92490503001	DGWC-2				
92490503002	DGWC-9				
92490503003	DGWC-10				
92490503004	DGWC-11				
92490503005	DGWC-12				
92490503006	DGWC-14				
92490503007	DGWC-19				
92490503010	DGWC-4				
92490503011	DGWC-5				
92490503012	DGWC-8				
92490503013	DGWC-13				
92490503014	DGWC-47				
92490503016	DGWC-15				
92490503017	DGWC-20				
92490503018	DGWC-23				
92490503019	DGWC-42				
92490503020	DGWC-48				
92490503022	DGWC-17				
92490503023	DGWC-21				
92490503024	DGWC-22				
92490503001	DGWC-2	EPA 3005A	559731	EPA 6020B	559753
92490503002	DGWC-9	EPA 3005A	559731	EPA 6020B	559753
92490503003	DGWC-10	EPA 3005A	559731	EPA 6020B	559753
92490503004	DGWC-11	EPA 3005A	559731	EPA 6020B	559753
92490503005	DGWC-12	EPA 3005A	559731	EPA 6020B	559753
92490503006	DGWC-14	EPA 3005A	559731	EPA 6020B	559753
92490503007	DGWC-19	EPA 3005A	559731	EPA 6020B	559753
92490503008	FB-1	EPA 3005A	559731	EPA 6020B	559753
92490503009	FD-1	EPA 3005A	559731	EPA 6020B	559753
92490503010	DGWC-4	EPA 3005A	560481	EPA 6020B	560487
92490503011	DGWC-5	EPA 3005A	560481	EPA 6020B	560487
92490503012	DGWC-8	EPA 3005A	560481	EPA 6020B	560487
92490503013	DGWC-13	EPA 3005A	560481	EPA 6020B	560487
92490503014	DGWC-47	EPA 3005A	560481	EPA 6020B	560487
92490503015	FD-2	EPA 3005A	560481	EPA 6020B	560487
92490503016	DGWC-15	EPA 3005A	560739	EPA 6020B	560802
92490503017	DGWC-20	EPA 3005A	560739	EPA 6020B	560802
92490503018	DGWC-23	EPA 3005A	560739	EPA 6020B	560802
92490503019	DGWC-42	EPA 3005A	560739	EPA 6020B	560802
92490503020	DGWC-48	EPA 3005A	560739	EPA 6020B	560802
92490503021	FB-2	EPA 3005A	560739	EPA 6020B	560802
92490503022	DGWC-17	EPA 3005A	560739	EPA 6020B	560802
92490503023	DGWC-21	EPA 3005A	560739	EPA 6020B	560802
92490503024	DGWC-22	EPA 3005A	560739	EPA 6020B	560802
92490503025	FB-3	EPA 3005A	560739	EPA 6020B	560802
92490503026	EB-3	EPA 3005A	560739	EPA 6020B	560802
92490503001	DGWC-2	EPA 7470A	559929	EPA 7470A	559986

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92490503002	DGWC-9	EPA 7470A	559929	EPA 7470A	559986
92490503003	DGWC-10	EPA 7470A	559929	EPA 7470A	559986
92490503004	DGWC-11	EPA 7470A	559929	EPA 7470A	559986
92490503005	DGWC-12	EPA 7470A	559929	EPA 7470A	559986
92490503006	DGWC-14	EPA 7470A	559929	EPA 7470A	559986
92490503007	DGWC-19	EPA 7470A	559929	EPA 7470A	559986
92490503008	FB-1	EPA 7470A	559929	EPA 7470A	559986
92490503009	FD-1	EPA 7470A	559929	EPA 7470A	559986
92490503010	DGWC-4	EPA 7470A	559929	EPA 7470A	559986
92490503011	DGWC-5	EPA 7470A	559929	EPA 7470A	559986
92490503012	DGWC-8	EPA 7470A	559932	EPA 7470A	559990
92490503013	DGWC-13	EPA 7470A	559932	EPA 7470A	559990
92490503014	DGWC-47	EPA 7470A	559932	EPA 7470A	559990
92490503015	FD-2	EPA 7470A	559932	EPA 7470A	559990
92490503016	DGWC-15	EPA 7470A	560631	EPA 7470A	560771
92490503017	DGWC-20	EPA 7470A	560631	EPA 7470A	560771
92490503018	DGWC-23	EPA 7470A	560631	EPA 7470A	560771
92490503019	DGWC-42	EPA 7470A	560631	EPA 7470A	560771
92490503020	DGWC-48	EPA 7470A	560631	EPA 7470A	560771
92490503021	FB-2	EPA 7470A	560631	EPA 7470A	560771
92490503022	DGWC-17	EPA 7470A	560631	EPA 7470A	560771
92490503023	DGWC-21	EPA 7470A	560631	EPA 7470A	560771
92490503024	DGWC-22	EPA 7470A	560631	EPA 7470A	560771
92490503025	FB-3	EPA 7470A	560631	EPA 7470A	560771
92490503026	EB-3	EPA 7470A	560631	EPA 7470A	560771
92490503001	DGWC-2	EPA 9315	410046		
92490503002	DGWC-9	EPA 9315	410046		
92490503003	DGWC-10	EPA 9315	410046		
92490503004	DGWC-11	EPA 9315	410046		
92490503005	DGWC-12	EPA 9315	410046		
92490503006	DGWC-14	EPA 9315	410046		
92490503007	DGWC-19	EPA 9315	410046		
92490503008	FB-1	EPA 9315	410046		
92490503009	FD-1	EPA 9315	410046		
92490503010	DGWC-4	EPA 9315	410046		
92490503011	DGWC-5	EPA 9315	410046		
92490503012	DGWC-8	EPA 9315	410046		
92490503013	DGWC-13	EPA 9315	410046		
92490503014	DGWC-47	EPA 9315	410046		
92490503015	FD-2	EPA 9315	410046		
92490503016	DGWC-15	EPA 9315	411372		
92490503017	DGWC-20	EPA 9315	411372		
92490503018	DGWC-23	EPA 9315	411372		
92490503019	DGWC-42	EPA 9315	411372		
92490503020	DGWC-48	EPA 9315	411372		
92490503021	FB-2	EPA 9315	411372		
92490503022	DGWC-17	EPA 9315	411372		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92490503023	DGWC-21	EPA 9315	411372		
92490503024	DGWC-22	EPA 9315	411372		
92490503025	FB-3	EPA 9315	411373		
92490503026	EB-3	EPA 9315	411373		
92490503001	DGWC-2	EPA 9320	410124		
92490503002	DGWC-9	EPA 9320	410124		
92490503003	DGWC-10	EPA 9320	410124		
92490503004	DGWC-11	EPA 9320	410124		
92490503005	DGWC-12	EPA 9320	410124		
92490503006	DGWC-14	EPA 9320	410124		
92490503007	DGWC-19	EPA 9320	410124		
92490503008	FB-1	EPA 9320	410124		
92490503009	FD-1	EPA 9320	410124		
92490503010	DGWC-4	EPA 9320	410124		
92490503011	DGWC-5	EPA 9320	410124		
92490503012	DGWC-8	EPA 9320	410124		
92490503013	DGWC-13	EPA 9320	410124		
92490503014	DGWC-47	EPA 9320	410124		
92490503015	FD-2	EPA 9320	410124		
92490503016	DGWC-15	EPA 9320	411433		
92490503017	DGWC-20	EPA 9320	411433		
92490503018	DGWC-23	EPA 9320	411433		
92490503019	DGWC-42	EPA 9320	411433		
92490503020	DGWC-48	EPA 9320	411433		
92490503021	FB-2	EPA 9320	411433		
92490503022	DGWC-17	EPA 9320	411433		
92490503023	DGWC-21	EPA 9320	411433		
92490503024	DGWC-22	EPA 9320	411433		
92490503025	FB-3	EPA 9320	411433		
92490503026	EB-3	EPA 9320	411433		
92490503001	DGWC-2	Total Radium Calculation	412557		
92490503002	DGWC-9	Total Radium Calculation	412557		
92490503003	DGWC-10	Total Radium Calculation	412557		
92490503004	DGWC-11	Total Radium Calculation	412557		
92490503005	DGWC-12	Total Radium Calculation	412557		
92490503006	DGWC-14	Total Radium Calculation	412557		
92490503007	DGWC-19	Total Radium Calculation	412557		
92490503008	FB-1	Total Radium Calculation	412557		
92490503009	FD-1	Total Radium Calculation	412557		
92490503010	DGWC-4	Total Radium Calculation	412558		
92490503011	DGWC-5	Total Radium Calculation	412558		
92490503012	DGWC-8	Total Radium Calculation	412558		
92490503013	DGWC-13	Total Radium Calculation	412558		
92490503014	DGWC-47	Total Radium Calculation	412558		
92490503015	FD-2	Total Radium Calculation	412558		
92490503016	DGWC-15	Total Radium Calculation	413154		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT MCDONOUGH AP-2, 3/4
 Pace Project No.: 92490503

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92490503017	DGWC-20	Total Radium Calculation	413154		
92490503018	DGWC-23	Total Radium Calculation	413154		
92490503019	DGWC-42	Total Radium Calculation	413154		
92490503020	DGWC-48	Total Radium Calculation	413154		
92490503021	FB-2	Total Radium Calculation	413154		
92490503022	DGWC-17	Total Radium Calculation	413154		
92490503023	DGWC-21	Total Radium Calculation	413154		
92490503024	DGWC-22	Total Radium Calculation	413154		
92490503025	FB-3	Total Radium Calculation	413154		
92490503026	EB-3	Total Radium Calculation	413154		
92490503001	DGWC-2	EPA 300.0 Rev 2.1 1993	559792		
92490503002	DGWC-9	EPA 300.0 Rev 2.1 1993	559792		
92490503003	DGWC-10	EPA 300.0 Rev 2.1 1993	559792		
92490503004	DGWC-11	EPA 300.0 Rev 2.1 1993	559792		
92490503005	DGWC-12	EPA 300.0 Rev 2.1 1993	559792		
92490503006	DGWC-14	EPA 300.0 Rev 2.1 1993	559792		
92490503007	DGWC-19	EPA 300.0 Rev 2.1 1993	559792		
92490503008	FB-1	EPA 300.0 Rev 2.1 1993	559792		
92490503009	FD-1	EPA 300.0 Rev 2.1 1993	559792		
92490503010	DGWC-4	EPA 300.0 Rev 2.1 1993	560228		
92490503011	DGWC-5	EPA 300.0 Rev 2.1 1993	560228		
92490503012	DGWC-8	EPA 300.0 Rev 2.1 1993	560228		
92490503013	DGWC-13	EPA 300.0 Rev 2.1 1993	560228		
92490503014	DGWC-47	EPA 300.0 Rev 2.1 1993	560228		
92490503015	FD-2	EPA 300.0 Rev 2.1 1993	560228		
92490503016	DGWC-15	EPA 300.0 Rev 2.1 1993	560825		
92490503017	DGWC-20	EPA 300.0 Rev 2.1 1993	560825		
92490503018	DGWC-23	EPA 300.0 Rev 2.1 1993	560825		
92490503019	DGWC-42	EPA 300.0 Rev 2.1 1993	560825		
92490503020	DGWC-48	EPA 300.0 Rev 2.1 1993	560825		
92490503021	FB-2	EPA 300.0 Rev 2.1 1993	560825		
92490503022	DGWC-17	EPA 300.0 Rev 2.1 1993	560825		
92490503023	DGWC-21	EPA 300.0 Rev 2.1 1993	560825		
92490503024	DGWC-22	EPA 300.0 Rev 2.1 1993	560825		
92490503025	FB-3	EPA 300.0 Rev 2.1 1993	561129		
92490503026	EB-3	EPA 300.0 Rev 2.1 1993	561129		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: G. A. Lower

WO#: **92490503**

Courier: Fed Ex UPS USPS Client Commercial Pace

Tracking #: _____



Custody Seal on Cooler/Box Present: yes no Seals Intact: _____

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 283

Type of Ice: Dry Blue None

Samples on ice, cooling process has begun

Cooler Temperature 1.8

Biological Tissue is Frozen: yes no

Date and Initials of person examining contents: 8/17/08 JCC

Temp should be above freezing to 4°C

Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Desired tests:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, sulfide, TOC, S&S, WQAD (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>8mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	_____	

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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



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	Section B	Section C
Analyst Information: Analyst Name: [Blank] Analyst Title: [Blank] Agency: [Blank] Phone: [Blank]	Sample Information: Sample ID: [Blank] Sample Description: [Blank] Collection Date: [Blank] Collection Location: [Blank]	Requesting Agency: Agency Name: [Blank] Requesting Officer: [Blank] Requesting Officer Title: [Blank] Requesting Officer Phone: [Blank]

ITEM #	SAMPLE ID	SAMPLE TYPE	DATE	TIME	ANALYST	AGENCY	ADDRESS	CITY	STATE	ZIP	ANALYSIS TEST	PRESERVATION			REMARKS	
												ADD TO WATER	FLUORIDE	REDUCED OIL/COIL		
1	000001	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	000002	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	000003	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	000004	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	000005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	000006	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	000007	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	000008	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	000009	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	000010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	000011	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	000012	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Section D	Section E	Section F	Section G
Signature: Signature: [Blank] Date: [Blank]	Signature: Signature: [Blank] Date: [Blank]	Signature: Signature: [Blank] Date: [Blank]	Signature: Signature: [Blank] Date: [Blank]

Kellogg

Supplemental Sampling Report - Environmental Monitoring Laboratory
 The Overall Quality is a Critical Component of All Report Data and the Overall Accuracy

Page 1 of 1

Section 1: General Information		Section 2: Project Information		Section 3: Analytical Services	
Client Name	10000000000000000000	Project Name	10000000000000000000	Analysis Type	10000000000000000000
Client Address	10000000000000000000	Project Address	10000000000000000000	Analysis Location	10000000000000000000
Client Contact	10000000000000000000	Project Contact	10000000000000000000	Analysis Date	10000000000000000000
Client Phone	10000000000000000000	Project Phone	10000000000000000000	Analysis Time	10000000000000000000

Sample ID	Description	Date	Time	Location	Analysis Method		Notes
					Method 1	Method 2	
010	SOX-01	10/10/2000	10:00	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000
011	SOX-02	10/10/2000	10:05	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000
012	SOX-03	10/10/2000	10:10	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000
013	SOX-04	10/10/2000	10:15	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000
014	SOX-05	10/10/2000	10:20	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000
015	SOX-06	10/10/2000	10:25	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000
016	SOX-07	10/10/2000	10:30	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000
017	SOX-08	10/10/2000	10:35	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000
018	SOX-09	10/10/2000	10:40	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000
019	SOX-10	10/10/2000	10:45	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000
020	SOX-11	10/10/2000	10:50	10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000

020/2000

010
011
012
013
014
015
016
017
018
019
020

Signature: *[Signature]*
 Date: 10/10/2000
 Title: *[Title]*

Boonville

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

W0#: 92490503
 PM: RLHI Due Date: 08/28/20
 CLIENT: GR-GR Power

Section A Analytical Request Information Project Name: [Blank] Client: [Blank] Address: [Blank] City: [Blank] State: [Blank] Zip: [Blank]		Section B Requested Analytical Information Request to: [Blank] Order to: [Blank] Analytical Method: [Blank] Sample Name: [Blank] Sample ID: [Blank]		Section C Sample Information Sample ID: [Blank] Sample Name: [Blank] Sample Location: [Blank] Date of Collection: [Blank]		Section D Analytical Method Information Method: [Blank] Instrument: [Blank] Reagents: [Blank]		Section E Chain of Custody Name: [Blank] Title: [Blank] Signature: [Blank] Date: [Blank]	
---	--	--	--	---	--	--	--	--	--

Sample ID	Sample Name	Sample Location	Date of Collection	Preparation		Analysis		Remarks
				Prep Method	Prep Time	Method	Time	
1	D6WC-17	...	...	...	...	...	...	PH: 5.01
2	D6WC-21	...	...	...	...	...	...	PH: 5.66
3	D6WC-22	...	...	...	...	...	...	PH: 5.76
4	D6WC-23	...	...	...	...	...	...	PH: 5.76
5	D6WC-24	...	...	...	...	...	...	PH: 5.76
6	D6WC-25	...	...	...	...	...	...	PH: 5.76
7	D6WC-26	...	...	...	...	...	...	PH: 5.76
8	D6WC-27	...	...	...	...	...	...	PH: 5.76
9	D6WC-28	...	...	...	...	...	...	PH: 5.76
10	D6WC-29	...	...	...	...	...	...	PH: 5.76
11	D6WC-30	...	...	...	...	...	...	PH: 5.76

Section F Additional Comments [Blank]	Section G Laboratory Use Date: [Blank] Time: [Blank]	Section H Analytical Results [Blank]	Section I Chain of Custody Name: [Blank] Title: [Blank] Signature: [Blank] Date: [Blank]
--	--	---	--



September 14, 2020

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

RE: Project: PLANT MCDONOUGH ASSESSMENT
Pace Project No.: 92490963

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between August 14, 2020 and August 19, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT MCDONOUGH ASSESSMENT
Pace Project No.: 92490963

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 #: 191
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

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

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92490963001	B-62	Water	08/13/20 17:06	08/14/20 14:30
92490963002	B-77	Water	08/13/20 16:55	08/14/20 14:30
92490963003	B-74	Water	08/14/20 11:34	08/14/20 14:30
92490963004	B-89	Water	08/14/20 10:03	08/14/20 14:30
92490963005	FD-3	Water	08/14/20 00:00	08/14/20 14:30
92490963006	B-83	Water	08/14/20 13:00	08/14/20 14:30
92490963007	B-88	Water	08/17/20 10:45	08/18/20 10:54
92490963008	B-100	Water	08/17/20 10:49	08/18/20 10:54
92490963009	B-56	Water	08/17/20 12:00	08/18/20 10:54
92490963010	B-3	Water	08/17/20 13:08	08/18/20 10:54
92490963011	B-82	Water	08/17/20 14:25	08/18/20 10:54
92490963012	B-93	Water	08/19/20 12:29	08/19/20 13:55

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92490963001	B-62	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490963002	B-77	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490963003	B-74	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490963004	B-89	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490963005	FD-3	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490963006	B-83	EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
92490963007	B-88	EPA 6020B	CW1	12	PASI-GA

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
92490963008	B-100	EPA 7470A	VB	1	PASI-GA		
		EPA 9315	LAL	1	PASI-PA		
		EPA 9320	VAL	1	PASI-PA		
		Total Radium Calculation	CMC	1	PASI-PA		
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A		
		EPA 6020B	CW1	12	PASI-GA		
		EPA 7470A	VB	1	PASI-GA		
		EPA 9315	LAL	1	PASI-PA		
		EPA 9320	VAL	1	PASI-PA		
		Total Radium Calculation	CMC	1	PASI-PA		
92490963009	B-56	EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A		
		EPA 6020B	CW1	12	PASI-GA		
		EPA 7470A	VB	1	PASI-GA		
		EPA 9315	LAL	1	PASI-PA		
		EPA 9320	VAL	1	PASI-PA		
		Total Radium Calculation	CMC	1	PASI-PA		
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A		
		92490963010	B-3	EPA 6020B	CW1	12	PASI-GA
				EPA 7470A	VB	1	PASI-GA
				EPA 9315	LAL	1	PASI-PA
EPA 9320	VAL			1	PASI-PA		
Total Radium Calculation	CMC			1	PASI-PA		
EPA 300.0 Rev 2.1 1993	CDC			1	PASI-A		
92490963011	B-82			EPA 6020B	CW1	12	PASI-GA
				EPA 7470A	VB	1	PASI-GA
				EPA 9315	LAL	1	PASI-PA
				EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA		
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A		
		92490963012	B-93	EPA 6020B	CW1	12	PASI-GA
				EPA 7470A	VB	1	PASI-GA
				EPA 9315	LAL	1	PASI-PA
				EPA 9320	VAL	1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA		
EPA 300.0 Rev 2.1 1993	CDC			1	PASI-A		

PASI-A = Pace Analytical Services - Asheville
 PASI-C = Pace Analytical Services - Charlotte

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH ASSESSMENT
Pace Project No.: 92490963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-GA = Pace Analytical Services - Peachtree Corners, GA
PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Sample: B-62		Lab ID: 92490963001		Collected: 08/13/20 17:06	Received: 08/14/20 14:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.40	Std. Units			1		08/20/20 17:22		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 20:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 20:08	7440-38-2	
Barium	0.026	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 20:08	7440-39-3	
Beryllium	0.00011J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 20:08	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 20:08	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 20:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 20:08	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 20:08	7439-92-1	
Lithium	0.0087J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 20:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 20:08	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 20:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 20:08	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	0.000078	1	08/18/20 12:00	08/19/20 13:09	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.11	mg/L	0.10	0.050	1		08/20/20 06:20	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Sample: B-77		Lab ID: 92490963002		Collected: 08/13/20 16:55	Received: 08/14/20 14:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.14	Std. Units			1		08/20/20 17:22		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00043J	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 20:14	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 20:14	7440-38-2	
Barium	0.11	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 20:14	7440-39-3	
Beryllium	0.00014J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 20:14	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 20:14	7440-43-9	
Chromium	0.0021J	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 20:14	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 20:14	7440-48-4	
Lead	0.0016J	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 20:14	7439-92-1	
Lithium	0.0018J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 20:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 20:14	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 20:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 20:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 13:11	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 06:34	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Sample: B-74 **Lab ID: 92490963003** Collected: 08/14/20 11:34 Received: 08/14/20 14:30 Matrix: Water

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

Analytical Method:
 Pace Analytical Services - Charlotte

pH	6.19	Std. Units			1		08/20/20 17:22		
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6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 20:20	7440-36-0	
Arsenic	0.010	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 20:20	7440-38-2	
Barium	0.077	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 20:20	7440-39-3	
Beryllium	0.000076J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 20:20	7440-41-7	
Cadmium	0.00026J	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 20:20	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 20:20	7440-47-3	
Cobalt	0.0023J	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 20:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 20:20	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 20:20	7439-93-2	
Molybdenum	0.052	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 20:20	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 20:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 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	0.000078	1	08/18/20 12:00	08/19/20 13:14	7439-97-6	
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300.0 IC Anions 28 Days

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

Fluoride	0.16	mg/L	0.10	0.050	1		08/20/20 07:16	16984-48-8	
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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Sample: B-89 **Lab ID: 92490963004** Collected: 08/14/20 10:03 Received: 08/14/20 14:30 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

pH **5.83** Std. Units 1 08/20/20 17:22

6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 20:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 20:26	7440-38-2	
Barium	0.031	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 20:26	7440-39-3	
Beryllium	0.000074J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 20:26	7440-41-7	
Cadmium	0.00063J	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 20:26	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 20:26	7440-47-3	
Cobalt	0.0058	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 20:26	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 20:26	7439-92-1	
Lithium	0.0055J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 20:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 20:26	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 20:26	7440-28-0	

7470 Mercury

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

Mercury **0.00014J** mg/L 0.00020 0.000078 1 08/18/20 12:00 08/19/20 13:16 7439-97-6

300.0 IC Anions 28 Days

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

Fluoride ND mg/L 0.10 0.050 1 08/20/20 07:30 16984-48-8

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Sample: FD-3		Lab ID: 92490963005		Collected: 08/14/20 00:00		Received: 08/14/20 14:30		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:30	08/19/20 20:31	7440-36-0	
Arsenic	0.0099	mg/L	0.0050	0.00078	1	08/18/20 18:30	08/19/20 20:31	7440-38-2	
Barium	0.074	mg/L	0.010	0.00071	1	08/18/20 18:30	08/19/20 20:31	7440-39-3	
Beryllium	0.000066J	mg/L	0.0030	0.000046	1	08/18/20 18:30	08/19/20 20:31	7440-41-7	
Cadmium	0.00021J	mg/L	0.0025	0.00012	1	08/18/20 18:30	08/19/20 20:31	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:30	08/19/20 20:31	7440-47-3	
Cobalt	0.0023J	mg/L	0.0050	0.00038	1	08/18/20 18:30	08/19/20 20:31	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:30	08/19/20 20:31	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	08/18/20 18:30	08/19/20 20:31	7439-93-2	
Molybdenum	0.052	mg/L	0.010	0.00069	1	08/18/20 18:30	08/19/20 20:31	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:30	08/19/20 20:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:30	08/19/20 20:31	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 13:18	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	0.15	mg/L	0.10	0.050	1		08/20/20 07:44	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Sample: B-83		Lab ID: 92490963006		Collected: 08/14/20 13:00	Received: 08/14/20 14:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.59	Std. Units			1		08/20/20 17:22		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:26	08/20/20 18:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:26	08/20/20 18:20	7440-38-2	
Barium	0.056	mg/L	0.010	0.00071	1	08/18/20 18:26	08/20/20 18:20	7440-39-3	
Beryllium	0.00070J	mg/L	0.0030	0.000046	1	08/18/20 18:26	08/21/20 15:22	7440-41-7	
Cadmium	0.00037J	mg/L	0.0025	0.00012	1	08/18/20 18:26	08/20/20 18:20	7440-43-9	
Chromium	0.0050J	mg/L	0.010	0.00055	1	08/18/20 18:26	08/20/20 18:20	7440-47-3	
Cobalt	0.021	mg/L	0.0050	0.00038	1	08/18/20 18:26	08/20/20 18:20	7440-48-4	
Lead	0.00092J	mg/L	0.0050	0.000036	1	08/18/20 18:26	08/20/20 18:20	7439-92-1	
Lithium	0.0045J	mg/L	0.030	0.00081	1	08/18/20 18:26	08/20/20 18:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:26	08/20/20 18:20	7439-98-7	
Selenium	0.015	mg/L	0.010	0.0016	1	08/18/20 18:26	08/20/20 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:26	08/20/20 18:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/18/20 12:00	08/19/20 13:21	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.050J	mg/L	0.10	0.050	1		08/20/20 07:58	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Sample: B-88 **Lab ID: 92490963007** Collected: 08/17/20 10:45 Received: 08/18/20 10:54 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

pH **5.76** Std. Units 1 08/20/20 17:22

6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:26	08/20/20 18:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:26	08/20/20 18:26	7440-38-2	
Barium	0.022	mg/L	0.010	0.00071	1	08/18/20 18:26	08/20/20 18:26	7440-39-3	
Beryllium	0.0014J	mg/L	0.0030	0.000046	1	08/18/20 18:26	08/21/20 15:28	7440-41-7	
Cadmium	0.0018J	mg/L	0.0025	0.00012	1	08/18/20 18:26	08/20/20 18:26	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00055	1	08/18/20 18:26	08/20/20 18:26	7440-47-3	
Cobalt	0.0031J	mg/L	0.0050	0.00038	1	08/18/20 18:26	08/20/20 18:26	7440-48-4	
Lead	0.00081J	mg/L	0.0050	0.000036	1	08/18/20 18:26	08/20/20 18:26	7439-92-1	
Lithium	0.0060J	mg/L	0.030	0.00081	1	08/18/20 18:26	08/20/20 18:26	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00069	1	08/18/20 18:26	08/20/20 18:26	7439-98-7	
Selenium	0.0017J	mg/L	0.010	0.0016	1	08/18/20 18:26	08/20/20 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:26	08/20/20 18:26	7440-28-0	

7470 Mercury

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

Mercury **0.00011J** mg/L 0.00020 0.000078 1 08/19/20 12:30 08/20/20 15:05 7439-97-6 B

300.0 IC Anions 28 Days

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

Fluoride ND mg/L 0.10 0.050 1 08/20/20 16:15 16984-48-8

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Sample: B-100		Lab ID: 92490963008		Collected: 08/17/20 10:49		Received: 08/18/20 10:54		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.02	Std. Units			1		08/20/20 17:22		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00028	1	08/18/20 18:26	08/20/20 19:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:26	08/20/20 19:00	7440-38-2	
Barium	0.015	mg/L	0.010	0.00071	1	08/18/20 18:26	08/20/20 19:00	7440-39-3	
Beryllium	0.00040J	mg/L	0.0030	0.000046	1	08/18/20 18:26	08/21/20 15:45	7440-41-7	
Cadmium	0.00059J	mg/L	0.0025	0.00012	1	08/18/20 18:26	08/20/20 19:00	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:26	08/20/20 19:00	7440-47-3	
Cobalt	0.077	mg/L	0.0050	0.00038	1	08/18/20 18:26	08/20/20 19:00	7440-48-4	
Lead	0.00088J	mg/L	0.0050	0.000036	1	08/18/20 18:26	08/20/20 19:00	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00081	1	08/18/20 18:26	08/20/20 19:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:26	08/20/20 19:00	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:26	08/20/20 19:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:26	08/20/20 19:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00011J	mg/L	0.00020	0.000078	1	08/19/20 12:30	08/20/20 15:07	7439-97-6	B
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 16:59	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Sample: B-56		Lab ID: 92490963009		Collected: 08/17/20 12:00	Received: 08/18/20 10:54	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.82	Std. Units			1		08/20/20 17:22		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:26	08/20/20 19:06	7440-36-0	
Arsenic	0.0032J	mg/L	0.0050	0.00078	1	08/18/20 18:26	08/20/20 19:06	7440-38-2	
Barium	0.030	mg/L	0.010	0.00071	1	08/18/20 18:26	08/20/20 19:06	7440-39-3	
Beryllium	0.0013J	mg/L	0.0030	0.000046	1	08/18/20 18:26	08/21/20 15:50	7440-41-7	
Cadmium	0.00029J	mg/L	0.0025	0.00012	1	08/18/20 18:26	08/20/20 19:06	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00055	1	08/18/20 18:26	08/20/20 19:06	7440-47-3	
Cobalt	0.042	mg/L	0.0050	0.00038	1	08/18/20 18:26	08/20/20 19:06	7440-48-4	
Lead	0.00022J	mg/L	0.0050	0.000036	1	08/18/20 18:26	08/20/20 19:06	7439-92-1	
Lithium	0.0056J	mg/L	0.030	0.00081	1	08/18/20 18:26	08/20/20 19:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:26	08/20/20 19:06	7439-98-7	
Selenium	0.011	mg/L	0.010	0.0016	1	08/18/20 18:26	08/20/20 19:06	7782-49-2	
Thallium	0.00016J	mg/L	0.0010	0.00014	1	08/18/20 18:26	08/20/20 19:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00016J	mg/L	0.00020	0.000078	1	08/19/20 12:30	08/20/20 15:10	7439-97-6	B
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.19	mg/L	0.10	0.050	1		08/20/20 17:14	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Sample: B-3		Lab ID: 92490963010		Collected: 08/17/20 13:08	Received: 08/18/20 10:54	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.51	Std. Units			1		08/20/20 17:22		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:26	08/20/20 19:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:26	08/20/20 19:12	7440-38-2	
Barium	0.026	mg/L	0.010	0.00071	1	08/18/20 18:26	08/20/20 19:12	7440-39-3	
Beryllium	0.0035	mg/L	0.0030	0.000046	1	08/18/20 18:26	08/21/20 15:56	7440-41-7	
Cadmium	0.00077J	mg/L	0.0025	0.00012	1	08/18/20 18:26	08/20/20 19:12	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:26	08/20/20 19:12	7440-47-3	
Cobalt	0.061	mg/L	0.0050	0.00038	1	08/18/20 18:26	08/20/20 19:12	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/18/20 18:26	08/20/20 19:12	7439-92-1	
Lithium	0.58	mg/L	0.030	0.00081	1	08/18/20 18:26	08/20/20 19:12	7439-93-2	
Molybdenum	0.0015J	mg/L	0.010	0.00069	1	08/18/20 18:26	08/20/20 19:12	7439-98-7	
Selenium	0.0021J	mg/L	0.010	0.0016	1	08/18/20 18:26	08/20/20 19:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:26	08/20/20 19:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00010J	mg/L	0.00020	0.000078	1	08/19/20 12:30	08/20/20 15:12	7439-97-6	B
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.077J	mg/L	0.10	0.050	1		08/20/20 17:29	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Sample: B-82		Lab ID: 92490963011		Collected: 08/17/20 14:25		Received: 08/18/20 10:54		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.48	Std. Units			1		08/20/20 17:22		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/18/20 18:26	08/20/20 19:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/18/20 18:26	08/20/20 19:17	7440-38-2	
Barium	0.024	mg/L	0.010	0.00071	1	08/18/20 18:26	08/20/20 19:17	7440-39-3	
Beryllium	0.0014J	mg/L	0.0030	0.000046	1	08/18/20 18:26	08/21/20 16:24	7440-41-7	
Cadmium	0.00058J	mg/L	0.0025	0.00012	1	08/18/20 18:26	08/20/20 19:17	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/18/20 18:26	08/20/20 19:17	7440-47-3	
Cobalt	0.0028J	mg/L	0.0050	0.00038	1	08/18/20 18:26	08/20/20 19:17	7440-48-4	
Lead	0.000059J	mg/L	0.0050	0.000036	1	08/18/20 18:26	08/20/20 19:17	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	08/18/20 18:26	08/20/20 19:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/18/20 18:26	08/20/20 19:17	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/18/20 18:26	08/20/20 19:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/18/20 18:26	08/20/20 19:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00011J	mg/L	0.00020	0.000078	1	08/19/20 12:30	08/20/20 15:14	7439-97-6	B
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/20/20 17:44	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Sample: B-93		Lab ID: 92490963012		Collected: 08/19/20 12:29		Received: 08/19/20 13:55		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.78	Std. Units			1		08/20/20 17:22		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	08/24/20 15:05	08/25/20 17:00	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00078	1	08/24/20 15:05	08/25/20 17:00	7440-38-2	
Barium	0.018	mg/L	0.010	0.00071	1	08/24/20 15:05	08/25/20 17:00	7440-39-3	
Beryllium	0.015	mg/L	0.0030	0.000046	1	08/24/20 15:05	08/25/20 17:00	7440-41-7	
Cadmium	0.00077J	mg/L	0.0025	0.00012	1	08/24/20 15:05	08/25/20 17:00	7440-43-9	
Chromium	0.00057J	mg/L	0.010	0.00055	1	08/24/20 15:05	08/25/20 17:00	7440-47-3	
Cobalt	0.068	mg/L	0.0050	0.00038	1	08/24/20 15:05	08/25/20 17:00	7440-48-4	
Lead	0.00012J	mg/L	0.0050	0.000036	1	08/24/20 15:05	08/26/20 17:06	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	08/24/20 15:05	08/25/20 17:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/24/20 15:05	08/25/20 17:00	7439-98-7	
Selenium	0.018	mg/L	0.010	0.0016	1	08/24/20 15:05	08/25/20 17:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/24/20 15:05	08/26/20 17:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00026	mg/L	0.00020	0.000078	1	08/24/20 11:30	08/25/20 08:52	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.32	mg/L	0.10	0.050	1		08/21/20 03:44	16984-48-8	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

QC Batch:	560739	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92490963001, 92490963002, 92490963003, 92490963004, 92490963005

METHOD BLANK: 2974806 Matrix: Water

Associated Lab Samples: 92490963001, 92490963002, 92490963003, 92490963004, 92490963005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/19/20 17:51	
Arsenic	mg/L	ND	0.0050	0.00078	08/19/20 17:51	
Barium	mg/L	ND	0.010	0.00071	08/19/20 17:51	
Beryllium	mg/L	ND	0.0030	0.000046	08/19/20 17:51	
Cadmium	mg/L	ND	0.0025	0.00012	08/19/20 17:51	
Chromium	mg/L	ND	0.010	0.00055	08/19/20 17:51	
Cobalt	mg/L	ND	0.0050	0.00038	08/19/20 17:51	
Lead	mg/L	ND	0.0050	0.000036	08/19/20 17:51	
Lithium	mg/L	ND	0.030	0.00081	08/19/20 17:51	
Molybdenum	mg/L	ND	0.010	0.00069	08/19/20 17:51	
Selenium	mg/L	ND	0.010	0.0016	08/19/20 17:51	
Thallium	mg/L	ND	0.0010	0.00014	08/19/20 17:51	

LABORATORY CONTROL SAMPLE: 2974807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2974808 2974809

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92490942006 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	114	109	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Barium	mg/L	0.088	0.1	0.1	0.22	0.21	131	119	75-125	6	20	M1
Beryllium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20	

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

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Parameter	Units	2974808		2974809		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92490942006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Cadmium	mg/L	0.00021J	0.1	0.1	0.10	0.098	99	98	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	0	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.098	102	97	75-125	4	20		
Molybdenum	mg/L	0.19	0.1	0.1	0.31	0.29	122	105	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.093	99	92	75-125	7	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	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: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

QC Batch: 560791 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92490963006, 92490963007, 92490963008, 92490963009, 92490963010, 92490963011

METHOD BLANK: 2975067 Matrix: Water

Associated Lab Samples: 92490963006, 92490963007, 92490963008, 92490963009, 92490963010, 92490963011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/20/20 16:30	
Arsenic	mg/L	ND	0.0050	0.00078	08/20/20 16:30	
Barium	mg/L	ND	0.010	0.00071	08/20/20 16:30	
Beryllium	mg/L	ND	0.0030	0.000046	08/20/20 16:30	
Cadmium	mg/L	ND	0.0025	0.00012	08/20/20 16:30	
Chromium	mg/L	ND	0.010	0.00055	08/20/20 16:30	
Cobalt	mg/L	ND	0.0050	0.00038	08/20/20 16:30	
Lead	mg/L	ND	0.0050	0.000036	08/20/20 16:30	
Lithium	mg/L	ND	0.030	0.00081	08/20/20 16:30	
Molybdenum	mg/L	ND	0.010	0.00069	08/20/20 16:30	
Selenium	mg/L	ND	0.010	0.0016	08/20/20 16:30	
Thallium	mg/L	ND	0.0010	0.00014	08/20/20 16:30	

LABORATORY CONTROL SAMPLE: 2975068

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	0.099	99	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	103	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	0.11	113	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2975069 2975070

Parameter	Units	2975069		2975070		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Antimony	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20	
Barium	mg/L	0.022	0.1	0.1	0.12	0.12	99	99	75-125	0	20	
Beryllium	mg/L	0.0014J	0.1	0.1	0.094	0.095	92	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Parameter	Units	2975069		2975070		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92490963007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Cadmium	mg/L	0.0018J	0.1	0.1	0.10	0.10	99	98	75-125	1	20	
Chromium	mg/L	0.0014J	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Cobalt	mg/L	0.0031J	0.1	0.1	0.10	0.099	97	96	75-125	1	20	
Lead	mg/L	0.00081J	0.1	0.1	0.088	0.095	87	94	75-125	8	20	
Lithium	mg/L	0.0060J	0.1	0.1	0.095	0.096	89	90	75-125	1	20	
Molybdenum	mg/L	0.0012J	0.1	0.1	0.098	0.10	97	101	75-125	4	20	
Selenium	mg/L	0.0017J	0.1	0.1	0.098	0.10	96	100	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.085	0.094	85	94	75-125	10	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

QC Batch:	561963	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92490963012

METHOD BLANK: 2980652 Matrix: Water

Associated Lab Samples: 92490963012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	08/25/20 16:08	
Arsenic	mg/L	ND	0.0050	0.00078	08/25/20 16:08	
Barium	mg/L	ND	0.010	0.00071	08/25/20 16:08	
Beryllium	mg/L	ND	0.0030	0.000046	08/25/20 16:08	
Cadmium	mg/L	ND	0.0025	0.00012	08/25/20 16:08	
Chromium	mg/L	ND	0.010	0.00055	08/25/20 16:08	
Cobalt	mg/L	ND	0.0050	0.00038	08/25/20 16:08	
Lead	mg/L	ND	0.0050	0.000036	08/26/20 16:20	
Lithium	mg/L	ND	0.030	0.00081	08/25/20 16:08	
Molybdenum	mg/L	ND	0.010	0.00069	08/25/20 16:08	
Selenium	mg/L	ND	0.010	0.0016	08/25/20 16:08	
Thallium	mg/L	ND	0.0010	0.00014	08/26/20 16:20	

LABORATORY CONTROL SAMPLE: 2980653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980654 2980655

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92491455013	Result	Spike Conc.	Spike Conc.							Result	Result
Antimony	mg/L	0.00064J	0.1	0.1	0.10	0.10	101	99	75-125	2	20
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20
Barium	mg/L	0.12	0.1	0.1	0.24	0.23	115	114	75-125	0	20
Beryllium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	0	20

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Parameter	Units	2980654		2980655		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92491455013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Cadmium	mg/L	0.00058J	0.1	0.1	0.096	0.096	95	95	75-125	0	20	
Chromium	mg/L	0.0015J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Cobalt	mg/L	0.00040J	0.1	0.1	0.10	0.10	99	99	75-125	0	20	
Lead	mg/L	0.00035J	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.096	0.098	96	97	75-125	1	20	
Molybdenum	mg/L	0.00077J	0.1	0.1	0.10	0.10	102	99	75-125	2	20	
Selenium	mg/L	0.0028J	0.1	0.1	0.10	0.10	99	99	75-125	0	20	
Thallium	mg/L	0.00021J	0.1	0.1	0.094	0.093	94	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

QC Batch: 560634 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92490963001, 92490963002, 92490963003, 92490963004, 92490963005, 92490963006

METHOD BLANK: 2974354 Matrix: Water
 Associated Lab Samples: 92490963001, 92490963002, 92490963003, 92490963004, 92490963005, 92490963006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	08/19/20 12:33	

LABORATORY CONTROL SAMPLE: 2974355

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: 2974356 2974357

Parameter	Units	2974356		2974357		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0022	0.0025	86	98	75-125	13	20	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

QC Batch: 560972 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92490963007, 92490963008, 92490963009, 92490963010, 92490963011

METHOD BLANK: 2975790 Matrix: Water
 Associated Lab Samples: 92490963007, 92490963008, 92490963009, 92490963010, 92490963011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.00012J	0.00020	0.000078	08/20/20 14:39	

LABORATORY CONTROL SAMPLE: 2975791

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: 2975792 2975793

Parameter	Units	2975792		2975793		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/L	0.51 ug/L	0.0025	0.0025	0.0030	0.0025	101	81	75-125	18	20	M1,R1

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

QC Batch: 561894 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92490963012

METHOD BLANK: 2980088 Matrix: Water
 Associated Lab Samples: 92490963012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	08/25/20 08:19	

LABORATORY CONTROL SAMPLE: 2980089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2980090 2980091

Parameter	Units	2980090		2980091		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92491616002 ND	0.0025	0.0025	0.0023	0.0026	90	102	75-125	12	20

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

QC Batch: 561129 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: 92490963001, 92490963002, 92490963003, 92490963004, 92490963005, 92490963006

METHOD BLANK: 2976672 Matrix: Water
 Associated Lab Samples: 92490963001, 92490963002, 92490963003, 92490963004, 92490963005, 92490963006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/20/20 00:59	

LABORATORY CONTROL SAMPLE: 2976673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2976674 2976675

Parameter	Units	92491362001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.9	2.9	113	115	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2976676 2976677

Parameter	Units	92491256001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.28	2.5	2.5	2.8	2.8	99	99	90-110	0	10	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

QC Batch: 561131 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: 92490963007, 92490963008, 92490963009, 92490963010, 92490963011

METHOD BLANK: 2976682 Matrix: Water
 Associated Lab Samples: 92490963007, 92490963008, 92490963009, 92490963010, 92490963011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/20/20 15:45	

LABORATORY CONTROL SAMPLE: 2976683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2976684 2976685

Parameter	Units	92490963007		2976684		2976685		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	102	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2976686 2976687

Parameter	Units	92490847002		2976686		2976687		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	105	105	90-110	0	10	

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

QC Batch: 561238 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: 92490963012

METHOD BLANK: 2977016 Matrix: Water
 Associated Lab Samples: 92490963012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	08/21/20 01:16	

LABORATORY CONTROL SAMPLE: 2977017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977018 2977019

Parameter	Units	2977018		2977019		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	99	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2977020 2977021

Parameter	Units	2977020		2977021		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	97	100	90-110	3	10	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Sample: B-62 **Lab ID: 92490963001** Collected: 08/13/20 17:06 Received: 08/14/20 14:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.647 ± 0.395 (0.610) C:75% T:NA	pCi/L	09/02/20 07:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.986 ± 0.474 (0.809) C:65% T:85%	pCi/L	09/09/20 12:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.63 ± 0.869 (1.42)	pCi/L	09/10/20 13:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-77 Lab ID: 92490963002 Collected: 08/13/20 16:55 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.782 ± 0.417 (0.602) C:81% T:NA	pCi/L	09/02/20 07:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.39 ± 0.593 (0.977) C:66% T:78%	pCi/L	09/09/20 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.17 ± 1.01 (1.58)	pCi/L	09/10/20 13:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Sample: B-74 **Lab ID: 92490963003** Collected: 08/14/20 11:34 Received: 08/14/20 14:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.678 ± 0.362 (0.450) C:79% T:NA	pCi/L	09/02/20 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.989 ± 0.494 (0.872) C:66% T:84%	pCi/L	09/09/20 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.67 ± 0.856 (1.32)	pCi/L	09/10/20 13:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-89 Lab ID: 92490963004 Collected: 08/14/20 10:03 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.116 ± 0.302 (0.720) C:79% T:NA	pCi/L	09/02/20 07:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.37 ± 0.567 (0.907) C:64% T:82%	pCi/L	09/09/20 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.49 ± 0.869 (1.63)	pCi/L	09/10/20 13:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Sample: FD-3 **Lab ID: 92490963005** Collected: 08/14/20 00:00 Received: 08/14/20 14:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.113 ± 0.250 (0.588) C:86% T:NA	pCi/L	09/02/20 07:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.881 ± 0.508 (0.942) C:61% T:88%	pCi/L	09/09/20 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.994 ± 0.758 (1.53)	pCi/L	09/10/20 13:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-83 Lab ID: 92490963006 Collected: 08/14/20 13:00 Received: 08/14/20 14:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.367 ± 0.263 (0.414) C:91% T:NA	pCi/L	09/02/20 07:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.583 ± 0.517 (1.05) C:66% T:71%	pCi/L	09/09/20 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.950 ± 0.780 (1.46)	pCi/L	09/10/20 13:16	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Sample: B-88 **Lab ID: 92490963007** Collected: 08/17/20 10:45 Received: 08/18/20 10:54 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.556 ± 0.309 (0.385) C:93% T:NA	pCi/L	09/02/20 07:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.91 ± 0.689 (1.02) C:66% T:71%	pCi/L	09/09/20 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.47 ± 0.998 (1.41)	pCi/L	09/10/20 13:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-100 Lab ID: 92490963008 Collected: 08/17/20 10:49 Received: 08/18/20 10:54 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.277 ± 0.266 (0.509) C:92% T:NA	pCi/L	09/02/20 07:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.12 ± 0.565 (0.994) C:62% T:77%	pCi/L	09/09/20 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.40 ± 0.831 (1.50)	pCi/L	09/10/20 13:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-56 Lab ID: 92490963009 Collected: 08/17/20 12:00 Received: 08/18/20 10:54 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.436 ± 0.307 (0.501) C:89% T:NA	pCi/L	09/02/20 07:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.712 ± 0.484 (0.933) C:61% T:86%	pCi/L	09/09/20 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 0.791 (1.43)	pCi/L	09/10/20 13:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-3 Lab ID: 92490963010 Collected: 08/17/20 13:08 Received: 08/18/20 10:54 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.992 ± 0.457 (0.654) C:94% T:NA	pCi/L	09/02/20 07:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.784 ± 0.970 (2.06) C:34% T:74%	pCi/L	09/09/20 12:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.78 ± 1.43 (2.71)	pCi/L	09/10/20 13:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Sample: B-82 **Lab ID: 92490963011** Collected: 08/17/20 14:25 Received: 08/18/20 10:54 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.119 ± 0.187 (0.404) C:91% T:NA	pCi/L	09/02/20 07:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.543 ± 0.463 (0.930) C:61% T:78%	pCi/L	09/09/20 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.662 ± 0.650 (1.33)	pCi/L	09/10/20 13:23	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-93 Lab ID: 92490963012 Collected: 08/19/20 12:29 Received: 08/19/20 13:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.725 ± 0.347 (0.405) C:96% T:NA	pCi/L	09/02/20 07:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.467 ± 0.517 (1.09) C:63% T:83%	pCi/L	09/09/20 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.19 ± 0.864 (1.50)	pCi/L	09/10/20 13:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

QC Batch:	411435	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92490963001, 92490963002, 92490963003, 92490963004, 92490963005, 92490963006, 92490963007, 92490963008, 92490963009, 92490963010, 92490963011, 92490963012

METHOD BLANK: 1990342 Matrix: Water

Associated Lab Samples: 92490963001, 92490963002, 92490963003, 92490963004, 92490963005, 92490963006, 92490963007, 92490963008, 92490963009, 92490963010, 92490963011, 92490963012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.664 ± 0.374 (0.672) C:70% T:89%	pCi/L	09/09/20 12:03	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

QC Batch:	411373	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92490963001, 92490963002, 92490963003, 92490963004, 92490963005, 92490963006, 92490963007, 92490963008, 92490963009, 92490963010, 92490963011, 92490963012

METHOD BLANK: 1989993 Matrix: Water

Associated Lab Samples: 92490963001, 92490963002, 92490963003, 92490963004, 92490963005, 92490963006, 92490963007, 92490963008, 92490963009, 92490963010, 92490963011, 92490963012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0671 ± 0.195 (0.481) C:88% T:NA	pCi/L	09/02/20 07:31	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

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

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: PLANT MCDONOUGH ASSESSMENT

Pace Project No.: 92490963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92490963001	B-62				
92490963002	B-77				
92490963003	B-74				
92490963004	B-89				
92490963006	B-83				
92490963007	B-88				
92490963008	B-100				
92490963009	B-56				
92490963010	B-3				
92490963011	B-82				
92490963012	B-93				
92490963001	B-62	EPA 3005A	560739	EPA 6020B	560802
92490963002	B-77	EPA 3005A	560739	EPA 6020B	560802
92490963003	B-74	EPA 3005A	560739	EPA 6020B	560802
92490963004	B-89	EPA 3005A	560739	EPA 6020B	560802
92490963005	FD-3	EPA 3005A	560739	EPA 6020B	560802
92490963006	B-83	EPA 3005A	560791	EPA 6020B	560801
92490963007	B-88	EPA 3005A	560791	EPA 6020B	560801
92490963008	B-100	EPA 3005A	560791	EPA 6020B	560801
92490963009	B-56	EPA 3005A	560791	EPA 6020B	560801
92490963010	B-3	EPA 3005A	560791	EPA 6020B	560801
92490963011	B-82	EPA 3005A	560791	EPA 6020B	560801
92490963012	B-93	EPA 3005A	561963	EPA 6020B	562039
92490963001	B-62	EPA 7470A	560634	EPA 7470A	560773
92490963002	B-77	EPA 7470A	560634	EPA 7470A	560773
92490963003	B-74	EPA 7470A	560634	EPA 7470A	560773
92490963004	B-89	EPA 7470A	560634	EPA 7470A	560773
92490963005	FD-3	EPA 7470A	560634	EPA 7470A	560773
92490963006	B-83	EPA 7470A	560634	EPA 7470A	560773
92490963007	B-88	EPA 7470A	560972	EPA 7470A	561213
92490963008	B-100	EPA 7470A	560972	EPA 7470A	561213
92490963009	B-56	EPA 7470A	560972	EPA 7470A	561213
92490963010	B-3	EPA 7470A	560972	EPA 7470A	561213
92490963011	B-82	EPA 7470A	560972	EPA 7470A	561213
92490963012	B-93	EPA 7470A	561894	EPA 7470A	562048
92490963001	B-62	EPA 9315	411373		
92490963002	B-77	EPA 9315	411373		
92490963003	B-74	EPA 9315	411373		
92490963004	B-89	EPA 9315	411373		
92490963005	FD-3	EPA 9315	411373		
92490963006	B-83	EPA 9315	411373		
92490963007	B-88	EPA 9315	411373		
92490963008	B-100	EPA 9315	411373		
92490963009	B-56	EPA 9315	411373		
92490963010	B-3	EPA 9315	411373		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT MCDONOUGH ASSESSMENT
 Pace Project No.: 92490963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92490963011	B-82	EPA 9315	411373		
92490963012	B-93	EPA 9315	411373		
92490963001	B-62	EPA 9320	411435		
92490963002	B-77	EPA 9320	411435		
92490963003	B-74	EPA 9320	411435		
92490963004	B-89	EPA 9320	411435		
92490963005	FD-3	EPA 9320	411435		
92490963006	B-83	EPA 9320	411435		
92490963007	B-88	EPA 9320	411435		
92490963008	B-100	EPA 9320	411435		
92490963009	B-56	EPA 9320	411435		
92490963010	B-3	EPA 9320	411435		
92490963011	B-82	EPA 9320	411435		
92490963012	B-93	EPA 9320	411435		
92490963001	B-62	Total Radium Calculation	413340		
92490963002	B-77	Total Radium Calculation	413340		
92490963003	B-74	Total Radium Calculation	413340		
92490963004	B-89	Total Radium Calculation	413340		
92490963005	FD-3	Total Radium Calculation	413340		
92490963006	B-83	Total Radium Calculation	413340		
92490963007	B-88	Total Radium Calculation	413341		
92490963008	B-100	Total Radium Calculation	413341		
92490963009	B-56	Total Radium Calculation	413341		
92490963010	B-3	Total Radium Calculation	413341		
92490963011	B-82	Total Radium Calculation	413341		
92490963012	B-93	Total Radium Calculation	413342		
92490963001	B-62	EPA 300.0 Rev 2.1 1993	561129		
92490963002	B-77	EPA 300.0 Rev 2.1 1993	561129		
92490963003	B-74	EPA 300.0 Rev 2.1 1993	561129		
92490963004	B-89	EPA 300.0 Rev 2.1 1993	561129		
92490963005	FD-3	EPA 300.0 Rev 2.1 1993	561129		
92490963006	B-83	EPA 300.0 Rev 2.1 1993	561129		
92490963007	B-88	EPA 300.0 Rev 2.1 1993	561131		
92490963008	B-100	EPA 300.0 Rev 2.1 1993	561131		
92490963009	B-56	EPA 300.0 Rev 2.1 1993	561131		
92490963010	B-3	EPA 300.0 Rev 2.1 1993	561131		
92490963011	B-82	EPA 300.0 Rev 2.1 1993	561131		
92490963012	B-93	EPA 300.0 Rev 2.1 1993	561238		

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

W0#: 92490963
 92490963

Page 1 of 2

Section A: Requester Information	Section B: Requested Project Information	Section C: Requester Information
Requester Name: <u>State Police - State Laboratory Building</u>	Requester ID: <u>00000000</u>	Requester Name: <u>State Police</u>
Requester Address: <u>1000 ...</u>	Requester Phone: <u>...</u>	Requester Title: <u>...</u>
Requester Email: <u>...</u>	Requester Fax: <u>...</u>	Requester Organization: <u>...</u>
Requester Contact: <u>...</u>	Requester Email: <u>...</u>	Requester Phone: <u>...</u>
Requester Fax: <u>...</u>	Requester Email: <u>...</u>	Requester Phone: <u>...</u>

Item #	Description	Quantity	Unit	Date	Time	Signature	Title	Analysis Test			Residual Chain (Y/N)
								GC	MS	IR	
1	SAMPLE ID	1	...	...	...	...	...
2				
3				
4				
5				
6				
7				
8				
9				
10				

Requester Name and Address	Requester Phone	Requester Email
Requester Title	Requester Organization	Requester Signature
Requester Date	Requester Time	Requester Initials



Sample Condition Upon Receipt

Client Name: GA Power WO#: 92490963

PR: KLW1 Due Date: 08/28/20 CLIENT: GA-GR Power

Carrier: Fed Ex UPS USPS Client Commercial Pace C Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other Ziploc

Thermometer Used TH214 Type of Ice: Ice Blue None Samples on ice, cooling process had begun

Cooler Temperature 3.8 Biological Tissue is Frozen: yes no Date and Initials of person examining contents: KLW 8/18/20

Table with 16 rows and 3 columns: Description, Yes/No/Blank, and Initials. Rows include Chain of Custody Present, Chain of Custody Filled Out, Chain of Custody Relinquished, Sampler Name & Signature on COC, Samples Arrived within Hold Time, Short Hold Time Analysis (<72hr), Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing preservation have been checked, All containers needing preservation are found to be in compliance with EPA recommendations, Samples checked for dechlorination, Headspace in VOA Vials (>8mm), Trip Blank Present, Trip Blank Custody Seals Present, Pace Trip Blank Lot # (if purchased).

Client Notification/Resolution: Field Data Required? Y / N Person Contacted: _____ Date/Time: _____ Comments/Resolution: _____

Project Manager Review: _____ Date: _____

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

2
FOCUS

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

Section 1 Requesting Agency <i>San Diego County Sheriff's Dept</i>	Section 2 Requesting Agency (Optional) <i>San Diego County Sheriff's Dept</i>	Section 3 Lab Information <i>San Diego County Sheriff's Dept</i>
Section 4 Number of Field Submissions <i>1</i>	Section 5 Estimated Project Submission <i>12/20/20</i>	Section 6 Lab Information <i>San Diego County Sheriff's Dept</i>
Section 7 Requesting Agency <i>San Diego County Sheriff's Dept</i>	Section 8 Requesting Agency (Optional) <i>San Diego County Sheriff's Dept</i>	Section 9 Lab Information <i>San Diego County Sheriff's Dept</i>
Section 10 Requesting Agency <i>San Diego County Sheriff's Dept</i>	Section 11 Requesting Agency (Optional) <i>San Diego County Sheriff's Dept</i>	Section 12 Lab Information <i>San Diego County Sheriff's Dept</i>

Item #	Description	Quantity	Unit	Date	Initials	Signature	Agency	Physical Analysis				Retention Period	Disposition
								Sample	Analysis	Test	Result		
1	SAMPLE ID For Submission to the FBI Laboratory Request for submission to the FBI Laboratory Date of Submission Date of Receipt Date of Analysis Date of Report	1	unit	12/20/20			San Diego County Sheriff's Dept	Sample	Analysis	Test	Result	Retention Period	Disposition
2		1	unit	12/20/20			San Diego County Sheriff's Dept	Sample	Analysis	Test	Result	Retention Period	Disposition
3		1	unit	12/20/20			San Diego County Sheriff's Dept	Sample	Analysis	Test	Result	Retention Period	Disposition
4		1	unit	12/20/20			San Diego County Sheriff's Dept	Sample	Analysis	Test	Result	Retention Period	Disposition
5		1	unit	12/20/20			San Diego County Sheriff's Dept	Sample	Analysis	Test	Result	Retention Period	Disposition
6		1	unit	12/20/20			San Diego County Sheriff's Dept	Sample	Analysis	Test	Result	Retention Period	Disposition
7		1	unit	12/20/20			San Diego County Sheriff's Dept	Sample	Analysis	Test	Result	Retention Period	Disposition
8		1	unit	12/20/20			San Diego County Sheriff's Dept	Sample	Analysis	Test	Result	Retention Period	Disposition
9		1	unit	12/20/20			San Diego County Sheriff's Dept	Sample	Analysis	Test	Result	Retention Period	Disposition
10		1	unit	12/20/20			San Diego County Sheriff's Dept	Sample	Analysis	Test	Result	Retention Period	Disposition

Section 13 Requesting Agency <i>San Diego County Sheriff's Dept</i>	Section 14 Requesting Agency (Optional) <i>San Diego County Sheriff's Dept</i>	Section 15 Lab Information <i>San Diego County Sheriff's Dept</i>
Section 16 Requesting Agency <i>San Diego County Sheriff's Dept</i>	Section 17 Requesting Agency (Optional) <i>San Diego County Sheriff's Dept</i>	Section 18 Lab Information <i>San Diego County Sheriff's Dept</i>

007
008
009
010
011

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

Analytical Request Information:
 Requester: State of Michigan
 Requester Title: Michigan State Police
 Requester Address: Michigan State Police
 Requester Phone: 979-254-1111
 Requester Email: Michigan State Police
 Requester Case No.: 2024-00123
 Requester Agency: Michigan State Police

Section 2

Analytical Request Information:
 Requester: Michigan State Police
 Requester Title: Michigan State Police
 Requester Address: Michigan State Police
 Requester Phone: 979-254-1111
 Requester Email: Michigan State Police
 Requester Case No.: 2024-00123
 Requester Agency: Michigan State Police

Section 3

Analytical Request Information:
 Requester: Michigan State Police
 Requester Title: Michigan State Police
 Requester Address: Michigan State Police
 Requester Phone: 979-254-1111
 Requester Email: Michigan State Police
 Requester Case No.: 2024-00123
 Requester Agency: Michigan State Police

Section 4

Analytical Request Information:
 Requester: Michigan State Police
 Requester Title: Michigan State Police
 Requester Address: Michigan State Police
 Requester Phone: 979-254-1111
 Requester Email: Michigan State Police
 Requester Case No.: 2024-00123
 Requester Agency: Michigan State Police

ITEM #	DESCRIPTION	QTY	DATE	INITIALS	SIGNATURE	ANALYSIS				ANALYSIS COST	ANALYSIS AGENCY
						PC	GC	MS	OTHER		
1	SAMPLE ID	1	08/15/24	[Signature]	[Signature]	PC	GC	MS	OTHER	9200.00	MSL
2											
3											
4											
5											
6											
7											
8											
9											
10											

ANALYST INFORMATION:
 Name: [Signature]
 Title: Analyst
 Agency: Michigan State Police
 Date: 08/15/24



Quality Control Sample Performance Assessment

Top	100%
Bottom	100%
Left	100%
Right	100%

Control Point Frequency	100%
Control Point Location	100%
Control Point Method	100%
Control Point Data	100%
Control Point Analysis	100%
Control Point Reporting	100%

Control Point	Frequency	Location	Method
Control Point 1	100%	100%	100%
Control Point 2	100%	100%	100%
Control Point 3	100%	100%	100%
Control Point 4	100%	100%	100%
Control Point 5	100%	100%	100%
Control Point 6	100%	100%	100%
Control Point 7	100%	100%	100%
Control Point 8	100%	100%	100%
Control Point 9	100%	100%	100%
Control Point 10	100%	100%	100%
Control Point 11	100%	100%	100%
Control Point 12	100%	100%	100%
Control Point 13	100%	100%	100%
Control Point 14	100%	100%	100%
Control Point 15	100%	100%	100%
Control Point 16	100%	100%	100%
Control Point 17	100%	100%	100%
Control Point 18	100%	100%	100%
Control Point 19	100%	100%	100%
Control Point 20	100%	100%	100%

Control Point	Frequency	Location	Method
Control Point 1	100%	100%	100%
Control Point 2	100%	100%	100%
Control Point 3	100%	100%	100%
Control Point 4	100%	100%	100%
Control Point 5	100%	100%	100%
Control Point 6	100%	100%	100%
Control Point 7	100%	100%	100%
Control Point 8	100%	100%	100%
Control Point 9	100%	100%	100%
Control Point 10	100%	100%	100%
Control Point 11	100%	100%	100%
Control Point 12	100%	100%	100%
Control Point 13	100%	100%	100%
Control Point 14	100%	100%	100%
Control Point 15	100%	100%	100%
Control Point 16	100%	100%	100%
Control Point 17	100%	100%	100%
Control Point 18	100%	100%	100%
Control Point 19	100%	100%	100%
Control Point 20	100%	100%	100%

See Controller or Quality Control for details on sample locations and frequencies.

Comments

Control Point Frequency (Control Point Frequency)

Control Point	Frequency	Location
Control Point 1	100%	100%
Control Point 2	100%	100%
Control Point 3	100%	100%
Control Point 4	100%	100%
Control Point 5	100%	100%
Control Point 6	100%	100%
Control Point 7	100%	100%
Control Point 8	100%	100%
Control Point 9	100%	100%
Control Point 10	100%	100%
Control Point 11	100%	100%
Control Point 12	100%	100%
Control Point 13	100%	100%
Control Point 14	100%	100%
Control Point 15	100%	100%
Control Point 16	100%	100%
Control Point 17	100%	100%
Control Point 18	100%	100%
Control Point 19	100%	100%
Control Point 20	100%	100%

Control Point	Frequency	Location
Control Point 1	100%	100%
Control Point 2	100%	100%
Control Point 3	100%	100%
Control Point 4	100%	100%
Control Point 5	100%	100%
Control Point 6	100%	100%
Control Point 7	100%	100%
Control Point 8	100%	100%
Control Point 9	100%	100%
Control Point 10	100%	100%
Control Point 11	100%	100%
Control Point 12	100%	100%
Control Point 13	100%	100%
Control Point 14	100%	100%
Control Point 15	100%	100%
Control Point 16	100%	100%
Control Point 17	100%	100%
Control Point 18	100%	100%
Control Point 19	100%	100%
Control Point 20	100%	100%

APPENDIX A

Laboratory Analytical Data
September 2020



October 16, 2020

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

RE: Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92496940

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



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CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92496940

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92496940

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92496940001	DGWA-53	Water	09/22/20 12:40	09/23/20 09:35
92496940002	DGWA-70A	Water	09/22/20 10:20	09/23/20 09:35
92496940003	DGWA-71	Water	09/22/20 11:45	09/23/20 09:35
92496940004	EB-1	Water	09/22/20 11:45	09/23/20 09:35

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT
 Pace Project No.: 92496940

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92496940001	DGWA-53	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496940002	DGWA-70A	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496940003	DGWA-71	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496940004	EB-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3

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.: 92496940

Sample: DGWA-53		Lab ID: 92496940001		Collected: 09/22/20 12:40		Received: 09/23/20 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.43	Std. Units			1		10/08/20 08:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	15.5	mg/L	1.0	0.070	1	09/24/20 14:20	09/25/20 22:29	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/28/20 15:08	09/29/20 18:55	7440-36-0	
Arsenic	0.00093J	mg/L	0.0050	0.00078	1	09/28/20 15:08	09/29/20 18:55	7440-38-2	
Barium	0.070	mg/L	0.010	0.00071	1	09/28/20 15:08	09/29/20 18:55	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/28/20 15:08	09/29/20 18:55	7440-41-7	
Boron	0.056J	mg/L	0.10	0.0052	1	09/28/20 15:08	09/29/20 18:55	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/28/20 15:08	09/29/20 18:55	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/28/20 15:08	09/29/20 18:55	7440-47-3	
Cobalt	0.011	mg/L	0.0050	0.00038	1	09/28/20 15:08	09/29/20 18:55	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/28/20 15:08	09/29/20 18:55	7439-92-1	
Lithium	0.0089J	mg/L	0.030	0.00081	1	09/28/20 15:08	09/29/20 18:55	7439-93-2	
Molybdenum	0.039	mg/L	0.010	0.00069	1	09/28/20 15:08	09/29/20 18:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/28/20 15:08	09/29/20 18:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/28/20 15:08	09/29/20 18:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 09:15	09/29/20 09:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	142	mg/L	10.0	10.0	1		09/24/20 10:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.6	mg/L	1.0	0.60	1		09/27/20 03:05	16887-00-6	M1
Fluoride	0.099J	mg/L	0.10	0.050	1		09/27/20 03:05	16984-48-8	M1
Sulfate	13.5	mg/L	1.0	0.50	1		09/27/20 03:05	14808-79-8	M1

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92496940

Sample: DGWA-70A		Lab ID: 92496940002		Collected: 09/22/20 10:20		Received: 09/23/20 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.01	Std. Units			1		10/08/20 08:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.0	mg/L	1.0	0.070	1	09/24/20 14:20	09/25/20 22:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/28/20 15:08	09/29/20 19:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/28/20 15:08	09/29/20 19:12	7440-38-2	
Barium	0.038	mg/L	0.010	0.00071	1	09/28/20 15:08	09/29/20 19:12	7440-39-3	
Beryllium	0.000068J	mg/L	0.0030	0.000046	1	09/28/20 15:08	09/29/20 19:12	7440-41-7	
Boron	ND	mg/L	0.10	0.0052	1	09/28/20 15:08	09/29/20 19:12	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/28/20 15:08	09/29/20 19:12	7440-43-9	
Chromium	0.00089J	mg/L	0.010	0.00055	1	09/28/20 15:08	09/29/20 19:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/28/20 15:08	09/29/20 19:12	7440-48-4	
Lead	0.000078J	mg/L	0.0050	0.000036	1	09/28/20 15:08	09/29/20 19:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/28/20 15:08	09/29/20 19:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/28/20 15:08	09/29/20 19:12	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/28/20 15:08	09/29/20 19:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/28/20 15:08	09/29/20 19:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 09:15	09/29/20 09:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	46.0	mg/L	10.0	10.0	1		09/24/20 10:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.9	mg/L	1.0	0.60	1		09/27/20 03:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/20 03:48	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/27/20 03:48	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92496940

Sample: DGWA-71		Lab ID: 92496940003		Collected: 09/22/20 11:45		Received: 09/23/20 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.06	Std. Units			1		10/08/20 08:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.4	mg/L	1.0	0.070	1	09/24/20 14:20	09/25/20 22:37	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/28/20 15:08	09/29/20 19:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/28/20 15:08	09/29/20 19:18	7440-38-2	
Barium	0.024	mg/L	0.010	0.00071	1	09/28/20 15:08	09/29/20 19:18	7440-39-3	
Beryllium	0.000069J	mg/L	0.0030	0.000046	1	09/28/20 15:08	09/29/20 19:18	7440-41-7	
Boron	ND	mg/L	0.10	0.0052	1	09/28/20 15:08	09/29/20 19:18	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/28/20 15:08	09/29/20 19:18	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/28/20 15:08	09/29/20 19:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/28/20 15:08	09/29/20 19:18	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/28/20 15:08	09/29/20 19:18	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00081	1	09/28/20 15:08	09/29/20 19:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/28/20 15:08	09/29/20 19:18	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/28/20 15:08	09/29/20 19:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/28/20 15:08	09/29/20 19:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 09:15	09/29/20 09:17	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	74.0	mg/L	10.0	10.0	1		09/24/20 10:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.2	mg/L	1.0	0.60	1		09/27/20 04:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/20 04:02	16984-48-8	
Sulfate	6.5	mg/L	1.0	0.50	1		09/27/20 04:02	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT
 Pace Project No.: 92496940

Sample: EB-1		Lab ID: 92496940004		Collected: 09/22/20 11:45		Received: 09/23/20 09:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	09/24/20 14:20	09/25/20 22:42	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/28/20 15:08	09/29/20 19:24	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	09/28/20 15:08	09/29/20 19:24	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	09/28/20 15:08	09/29/20 19:24	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	09/28/20 15:08	09/29/20 19:24	7440-41-7		
Boron	ND	mg/L	0.10	0.0052	1	09/28/20 15:08	09/29/20 19:24	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	09/28/20 15:08	09/29/20 19:24	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	09/28/20 15:08	09/29/20 19:24	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	09/28/20 15:08	09/29/20 19:24	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	09/28/20 15:08	09/29/20 19:24	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	09/28/20 15:08	09/29/20 19:24	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	09/28/20 15:08	09/29/20 19:24	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	09/28/20 15:08	09/29/20 19:24	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	09/28/20 15:08	09/29/20 19:24	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 09:15	09/29/20 09:20	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/24/20 10:31			
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		09/27/20 22:22	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/27/20 22:22	16984-48-8		
Sulfate	0.64J	mg/L	1.0	0.50	1		09/27/20 22:22	14808-79-8		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
 Pace Project No.: 92496940

QC Batch: 568748 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496940001, 92496940002, 92496940003, 92496940004

METHOD BLANK: 3013298 Matrix: Water
 Associated Lab Samples: 92496940001, 92496940002, 92496940003, 92496940004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/25/20 20:40	

LABORATORY CONTROL SAMPLE: 3013299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3013300 3013301

Parameter	Units	3013300		3013301		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495894022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Calcium	mg/L	75.3	1	1	79.7	76.2	438	83	75-125	5	20 M1

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

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92496940

QC Batch:	569382	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92496940001, 92496940002, 92496940003, 92496940004

METHOD BLANK: 3016873 Matrix: Water
 Associated Lab Samples: 92496940001, 92496940002, 92496940003, 92496940004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	09/29/20 18:03	
Arsenic	mg/L	ND	0.0050	0.00078	09/29/20 18:03	
Barium	mg/L	ND	0.010	0.00071	09/29/20 18:03	
Beryllium	mg/L	ND	0.0030	0.000046	09/29/20 18:03	
Boron	mg/L	ND	0.10	0.0052	09/29/20 18:03	
Cadmium	mg/L	ND	0.0025	0.00012	09/29/20 18:03	
Chromium	mg/L	ND	0.010	0.00055	09/29/20 18:03	
Cobalt	mg/L	ND	0.0050	0.00038	09/29/20 18:03	
Lead	mg/L	ND	0.0050	0.000036	09/29/20 18:03	
Lithium	mg/L	ND	0.030	0.00081	09/29/20 18:03	
Molybdenum	mg/L	ND	0.010	0.00069	09/29/20 18:03	
Selenium	mg/L	ND	0.010	0.0016	09/29/20 18:03	
Thallium	mg/L	ND	0.0010	0.00014	09/29/20 18:03	

LABORATORY CONTROL SAMPLE: 3016874

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	0.098	98	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.94	94	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.091	91	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3016875 3016876

Parameter	Units	92495870024 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	0.099	101	99	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.097	0.094	97	94	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92496940

Parameter	Units	3016875		3016876		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495870024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Barium	mg/L	0.013	0.1	0.1	0.11	0.11	98	95	75-125	3	20
Beryllium	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	1	20
Boron	mg/L	ND	1	1	0.97	0.93	96	93	75-125	4	20
Cadmium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20
Chromium	mg/L	0.00089J	0.1	0.1	0.098	0.095	98	94	75-125	4	20
Cobalt	mg/L	ND	0.1	0.1	0.097	0.094	97	94	75-125	3	20
Lead	mg/L	0.000075J	0.1	0.1	0.095	0.094	95	94	75-125	1	20
Lithium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.096	98	96	75-125	3	20
Selenium	mg/L	ND	0.1	0.1	0.092	0.093	91	91	75-125	1	20
Thallium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92496940

QC Batch: 569298	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92496940001, 92496940002, 92496940003, 92496940004

METHOD BLANK: 3016185 Matrix: Water
 Associated Lab Samples: 92496940001, 92496940002, 92496940003, 92496940004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	09/29/20 08:13	

LABORATORY CONTROL SAMPLE: 3016186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3016187 3016188

Parameter	Units	3016187		3016188		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	102	96	75-125	6	20

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
 Pace Project No.: 92496940

QC Batch: 568649 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496940001, 92496940002, 92496940003, 92496940004

METHOD BLANK: 3012742 Matrix: Water
 Associated Lab Samples: 92496940001, 92496940002, 92496940003, 92496940004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/24/20 10:30	

LABORATORY CONTROL SAMPLE: 3012743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	407	102	84-108	

SAMPLE DUPLICATE: 3012744

Parameter	Units	92496914002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	107	113	5	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92496940

QC Batch: 569206 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: 92496940001, 92496940002, 92496940003, 92496940004

METHOD BLANK: 3015927 Matrix: Water
 Associated Lab Samples: 92496940001, 92496940002, 92496940003, 92496940004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/27/20 02:07	
Fluoride	mg/L	ND	0.10	0.050	09/27/20 02:07	
Sulfate	mg/L	ND	1.0	0.50	09/27/20 02:07	

LABORATORY CONTROL SAMPLE: 3015928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.4	107	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3015931 3015932

Parameter	Units	92496941006		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	3.2	50	50	57.3	57.2	108	108	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	99	99	90-110	0	10		
Sulfate	mg/L	40.2	50	50	93.6	93.5	107	106	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3015973 3015974

Parameter	Units	92496940001		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	1.6	50	50	64.7	63.0	126	123	90-110	3	10	M1	
Fluoride	mg/L	0.099J	2.5	2.5	3.3	3.2	130	126	90-110	3	10	M1	
Sulfate	mg/L	13.5	50	50	78.6	76.7	130	126	90-110	2	10	M1	

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QUALIFIERS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92496940

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.: 92496940

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92496940001	DGWA-53				
92496940002	DGWA-70A				
92496940003	DGWA-71				
92496940001	DGWA-53	EPA 3010A	568748	EPA 6010D	568812
92496940002	DGWA-70A	EPA 3010A	568748	EPA 6010D	568812
92496940003	DGWA-71	EPA 3010A	568748	EPA 6010D	568812
92496940004	EB-1	EPA 3010A	568748	EPA 6010D	568812
92496940001	DGWA-53	EPA 3005A	569382	EPA 6020B	569504
92496940002	DGWA-70A	EPA 3005A	569382	EPA 6020B	569504
92496940003	DGWA-71	EPA 3005A	569382	EPA 6020B	569504
92496940004	EB-1	EPA 3005A	569382	EPA 6020B	569504
92496940001	DGWA-53	EPA 7470A	569298	EPA 7470A	569454
92496940002	DGWA-70A	EPA 7470A	569298	EPA 7470A	569454
92496940003	DGWA-71	EPA 7470A	569298	EPA 7470A	569454
92496940004	EB-1	EPA 7470A	569298	EPA 7470A	569454
92496940001	DGWA-53	SM 2450C-2011	568649		
92496940002	DGWA-70A	SM 2450C-2011	568649		
92496940003	DGWA-71	SM 2450C-2011	568649		
92496940004	EB-1	SM 2450C-2011	568649		
92496940001	DGWA-53	EPA 300.0 Rev 2.1 1993	569206		
92496940002	DGWA-70A	EPA 300.0 Rev 2.1 1993	569206		
92496940003	DGWA-71	EPA 300.0 Rev 2.1 1993	569206		
92496940004	EB-1	EPA 300.0 Rev 2.1 1993	569206		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GA Power - Coal

WO#: 92496940



Courier: Fed Ex UPS USPS Client Commercial Pace

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: ✓

Packing Material: Bubble Wrap Bubble Bags None Other Ziplock

Thermometer Used 230

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 3.5

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: CO

Temp should be above freezing to 8°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>WT</u>	
All containers needing preservation have been checked:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, voliles, TOC, O&G, W-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	initial when completed <u>CO</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>5mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Field Data Required? Y / I / N

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

F-ALLO000rev.3, 11September2008

Signature

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

Page: 1 of 1

Analytical Chain of Custody Date: 1/15/2018 Time: 10:00 AM Location: 10000 Analyst: [Signature] Supervisor: [Signature]		Analytical Request Description Request No: 10000 Request Date: 1/15/2018 Request Time: 10:00 AM Request Location: 10000 Requester: [Signature]		Sample Information Sample ID: 10000 Sample Name: 10000 Sample Date: 1/15/2018 Sample Time: 10:00 AM Sample Location: 10000	
--	--	---	--	---	--

ITEM #	SAMPLE ID	ANALYST	DATE	TIME	LOCATION	METHOD	ANALYSIS TEST		REMARKS
							TEST	RESULT	
1	10000-1	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
2	10000-2	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
3	10000-3	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
4	10000-4	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
5	10000-5	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
6	10000-6	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
7	10000-7	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
8	10000-8	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
9	10000-9	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
10	10000-10	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
11	10000-11	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
12	10000-12	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
13	10000-13	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS
14	10000-14	[Signature]	1/15/2018	10:00 AM	10000	GC/MS	Yes	GC/MS	GC/MS

Signature
 Date: 1/15/2018
 Time: 10:00 AM
 Location: 10000



October 14, 2020

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

RE: Project: MCDONOUGH UPGRADIENT RADS
Pace Project No.: 92496907

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



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CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT RADS
Pace Project No.: 92496907

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 UPGRADIENT RADS
Pace Project No.: 92496907

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92496907001	DGWA-53	Water	09/22/20 12:40	09/23/20 09:35
92496907002	DGWA-70A	Water	09/22/20 10:20	09/23/20 09:35
92496907003	DGWA-71	Water	09/22/20 11:45	09/23/20 09:35
92496907004	EB-1	Water	09/22/20 10:40	09/23/20 09:35

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92496907

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92496907001	DGWA-53	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496907002	DGWA-70A	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496907003	DGWA-71	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496907004	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 UPGRADIENT RADS

Pace Project No.: 92496907

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWA-53 Lab ID: 92496907001 Collected: 09/22/20 12:40 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.950 ± 0.407 (0.455) C:79% T:NA	pCi/L	10/08/20 07:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.32 ± 0.588 (0.987) C:61% T:85%	pCi/L	10/12/20 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.27 ± 0.995 (1.44)	pCi/L	10/14/20 09:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92496907

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.178 ± 0.200 (0.398) C:96% T:NA	pCi/L	10/08/20 07:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.272 ± 0.423 (0.915) C:63% T:86%	pCi/L	10/12/20 11:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.450 ± 0.623 (1.31)	pCi/L	10/14/20 09:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92496907

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWA-71 Lab ID: 92496907003 Collected: 09/22/20 11:45 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.216 ± 0.243 (0.484) C:83% T:NA	pCi/L	10/08/20 07:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.365 ± 0.384 (0.955) C:67% T:84%	pCi/L	10/12/20 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.216 ± 0.627 (1.44)	pCi/L	10/14/20 09:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92496907

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-1 Lab ID: 92496907004 Collected: 09/22/20 10:40 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0348 ± 0.133 (0.424) C:80% T:NA	pCi/L	10/08/20 07:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.962 ± 0.578 (1.09) C:66% T:76%	pCi/L	10/12/20 11:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.962 ± 0.711 (1.51)	pCi/L	10/14/20 09:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92496907

QC Batch: 415887

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92496907001, 92496907002, 92496907003, 92496907004

METHOD BLANK: 2010984

Matrix: Water

Associated Lab Samples: 92496907001, 92496907002, 92496907003, 92496907004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.452 ± 0.429 (0.882) C:72% T:83%	pCi/L	10/12/20 11:46	

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.: 92496907

QC Batch:	415889	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92496907001, 92496907002, 92496907003, 92496907004

METHOD BLANK: 2010986 Matrix: Water

Associated Lab Samples: 92496907001, 92496907002, 92496907003, 92496907004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.196 ± 0.238 (0.495) C:89% T:NA	pCi/L	10/08/20 07:29	

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.: 92496907

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT RADS
 Pace Project No.: 92496907

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92496907001	DGWA-53	EPA 9315	415889		
92496907002	DGWA-70A	EPA 9315	415889		
92496907003	DGWA-71	EPA 9315	415889		
92496907004	EB-1	EPA 9315	415889		
92496907001	DGWA-53	EPA 9320	415887		
92496907002	DGWA-70A	EPA 9320	415887		
92496907003	DGWA-71	EPA 9320	415887		
92496907004	EB-1	EPA 9320	415887		
92496907001	DGWA-53	Total Radium Calculation	418329		
92496907002	DGWA-70A	Total Radium Calculation	418329		
92496907003	DGWA-71	Total Radium Calculation	418329		
92496907004	EB-1	Total Radium Calculation	418329		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GA Power - Coal Co

WO#: 92496907

Courier: Fed Ex UPS USPS Client Commercial Pace Oth
Tracking #: _____



Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other Ziplock

Thermometer Used 230 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 3.5 Biological Tissue is Frozen: Yes No Date and initials of person examining contents: CO

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>WT</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, colorm, TOC, O&G, W-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>CO</u> Lot # of added preservative:
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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



Document Name:
 Bottle Identification Form (BIF)
 Document No.:
 I-CAR-23-043-Rev. 00

Document issued: March 14, 2013
 Page 1 of 1
 Issuing Authority:
 Pace Carolina Quality Office

Project #

WO#: 92496907

PR: KLH1

Due Date: 10/14/20

CLIENT: GR-CR Power

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

Acceptance: VOA, Coliform, TOC, Oil and Grease, DRD/ROTS (water) DOC, UMG

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

Sample	Method	1	2	3	4	5	6	7	8	9	10	11	12
BP40-125 ml, Plastic, Unpreserved (P/N)	10-1												
BP10-150 ml, Plastic, Unpreserved (P/N)													
BP20-100 ml, Plastic, Unpreserved (P/N)													
BP10-1 liter Plastic, Unpreserved (P/N)													
BP40-125 ml, Plastic, H2SO4 (pH = 2) (P-1)													
BP20-250 ml, plastic, HNO3 (pH = 2)													
BP20-125 ml, Plastic, 2% Acetic Acid, NaOH (pH)													
BP40-125 ml, Plastic, NaOH (pH = 10) (P-1)													
WQ20-White Washed Glass Jar Unpreserved													
AG10-1 liter Amber Unpreserved (P/N)	(P-1)												
AG10-1 liter Amber H2O (pH = 7)													
AG20-250 ml, Amber, Unpreserved (P/N) (P-1)													
AG20-1 liter Amber H2SO4 (pH = 2)													
AG20-250 ml, Amber H2SO4 (pH = 2)													
AG20-250 ml, Amber HNO3 (P/N)													
AG20-250 ml, Amber H2O (P/N)													
WQ20-40 ml, VOA H2O (P/N)													
WQ20-40 ml, VOA H2O/H2O2 (P/N)													
WQ20-40 ml, VOA UMG (P/N)													
WQ20-40 ml, VOA H2SO4 (P/N)													
WQ40 (2 vials per 100-1000 for (P/N)													
WQ40 (2 vials per 100-1000 for (P/N)													
WQ20-125 ml, Sterile Plastic (P/N - 100)													
WQ20-125 ml, Sterile Plastic (P/N - 100)													
WQ20-250 ml, Plastic (P/N) (P-1-1-1)													
WQ20-100 ml, Amber Unpreserved vials (P/N)													
WQ20-20 ml, Isotillation vials (P/N)													

RPN

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 State Certification. Out of hold, incorrect preservative, out of temp, incorrect containers.



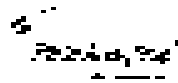
CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a USDA DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section 1 Requester Information		Section 2 Requester Agency Information		Section 3 Requester Information	
Requester Name	Requester Title	Agency Name	Agency Address	Requester Name	Requester Title
Requester Phone	Requester Email	Agency Phone	Agency City	Requester Phone	Requester Email
Requester Fax	Requester Address	Agency Fax	Agency State	Requester Fax	Requester Address
Requester Email	Requester City	Agency Email	Agency Zip	Requester Email	Requester City
Requester State	Requester Zip	Agency State	Agency Zip	Requester State	Requester Zip
Requester Country	Requester Date	Agency Country	Agency Date	Requester Country	Requester Date

ITEM	SAMPLE ID	DATE	TIME	LOCATION	ANALYSIS TEST	ANALYSIS TEST RESULTS		ANALYSIS TEST COMMENTS	ANALYSIS TEST DATE	ANALYSIS TEST TIME	ANALYSIS TEST LOCATION	ANALYSIS TEST COMMENTS
						TEST NAME	TEST RESULT					
1	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
2	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
3	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
4	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
5	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
6	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
7	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
8	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
9	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
10	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
11	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
12	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
13	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10
14	10000-10	10/10/2010	10:00	10000-10	10000-10	10000-10	10000-10	10000-10	10/10/2010	10:00	10000-10	10000-10

Signature: *[Handwritten Signature]*
 Date: 10/10/2010



Quality Control Sample Performance Assessment

After you have done quality control, fill in the following information:

Year	2020
Major	CE
Date	10/20/20
Location	Mad
Project	20

Student Name	
1st Name	10/20/20
2nd Name	10/20
3rd Name	10/20
4th Name	10/20
5th Name	10/20
6th Name	10/20
7th Name	10/20
8th Name	10/20
9th Name	10/20
10th Name	10/20

Quality Control Sample Information	
Sample No.	10/20/20
Sample Name	10/20/20
Sample Location	10/20/20
Sample Date	10/20/20
Sample Time	10/20/20
Sample Type	10/20/20
Sample Method	10/20/20
Sample Results	10/20/20
Sample Comments	10/20/20
Sample Status	10/20/20
Sample Owner	10/20/20
Sample Reviewer	10/20/20
Sample Approved	10/20/20
Sample Rejected	10/20/20

Quality Control Sample Results			
Sample No.	10/20/20	Sample Name	10/20/20
Sample Date	10/20/20	Sample Location	10/20/20
Sample Time	10/20/20	Sample Method	10/20/20
Sample Type	10/20/20	Sample Results	10/20/20
Sample Method	10/20/20	Sample Comments	10/20/20
Sample Results	10/20/20	Sample Status	10/20/20
Sample Comments	10/20/20	Sample Owner	10/20/20
Sample Status	10/20/20	Sample Reviewer	10/20/20
Sample Approved	10/20/20	Sample Rejected	10/20/20

Quality Control Sample Information	
Sample No.	10/20/20
Sample Name	10/20/20
Sample Location	10/20/20
Sample Date	10/20/20
Sample Time	10/20/20
Sample Type	10/20/20
Sample Method	10/20/20
Sample Results	10/20/20
Sample Comments	10/20/20
Sample Status	10/20/20
Sample Owner	10/20/20
Sample Reviewer	10/20/20
Sample Approved	10/20/20
Sample Rejected	10/20/20

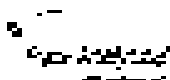
Quality Control Sample Results			
Sample No.	10/20/20	Sample Name	10/20/20
Sample Date	10/20/20	Sample Location	10/20/20
Sample Time	10/20/20	Sample Method	10/20/20
Sample Type	10/20/20	Sample Results	10/20/20
Sample Method	10/20/20	Sample Comments	10/20/20
Sample Results	10/20/20	Sample Status	10/20/20
Sample Comments	10/20/20	Sample Owner	10/20/20
Sample Status	10/20/20	Sample Reviewer	10/20/20
Sample Approved	10/20/20	Sample Rejected	10/20/20

By this action, I agree to the quality control sample results and certify that they are correct.

Signature:

Signature: _____ Date: _____

Signature: _____ Date: _____



Quality Control Sample Performance Assessment

Analysis performed on: **08/27/2018**
by: **W. Williams**

Sample	Result	Acceptance Criteria
Sample 1	100%	100%
Sample 2	100%	100%
Sample 3	100%	100%
Sample 4	100%	100%
Sample 5	100%	100%
Sample 6	100%	100%
Sample 7	100%	100%
Sample 8	100%	100%
Sample 9	100%	100%
Sample 10	100%	100%
Sample 11	100%	100%
Sample 12	100%	100%
Sample 13	100%	100%
Sample 14	100%	100%
Sample 15	100%	100%
Sample 16	100%	100%
Sample 17	100%	100%
Sample 18	100%	100%
Sample 19	100%	100%
Sample 20	100%	100%
Sample 21	100%	100%
Sample 22	100%	100%
Sample 23	100%	100%
Sample 24	100%	100%
Sample 25	100%	100%
Sample 26	100%	100%
Sample 27	100%	100%
Sample 28	100%	100%
Sample 29	100%	100%
Sample 30	100%	100%

Sample	Result	Acceptance Criteria
Sample 1	100%	100%
Sample 2	100%	100%
Sample 3	100%	100%
Sample 4	100%	100%
Sample 5	100%	100%
Sample 6	100%	100%
Sample 7	100%	100%
Sample 8	100%	100%
Sample 9	100%	100%
Sample 10	100%	100%
Sample 11	100%	100%
Sample 12	100%	100%
Sample 13	100%	100%
Sample 14	100%	100%
Sample 15	100%	100%
Sample 16	100%	100%
Sample 17	100%	100%
Sample 18	100%	100%
Sample 19	100%	100%
Sample 20	100%	100%
Sample 21	100%	100%
Sample 22	100%	100%
Sample 23	100%	100%
Sample 24	100%	100%
Sample 25	100%	100%
Sample 26	100%	100%
Sample 27	100%	100%
Sample 28	100%	100%
Sample 29	100%	100%
Sample 30	100%	100%

Sample	Result	Acceptance Criteria
Sample 1	100%	100%
Sample 2	100%	100%
Sample 3	100%	100%
Sample 4	100%	100%
Sample 5	100%	100%
Sample 6	100%	100%
Sample 7	100%	100%
Sample 8	100%	100%
Sample 9	100%	100%
Sample 10	100%	100%
Sample 11	100%	100%
Sample 12	100%	100%
Sample 13	100%	100%
Sample 14	100%	100%
Sample 15	100%	100%
Sample 16	100%	100%
Sample 17	100%	100%
Sample 18	100%	100%
Sample 19	100%	100%
Sample 20	100%	100%
Sample 21	100%	100%
Sample 22	100%	100%
Sample 23	100%	100%
Sample 24	100%	100%
Sample 25	100%	100%
Sample 26	100%	100%
Sample 27	100%	100%
Sample 28	100%	100%
Sample 29	100%	100%
Sample 30	100%	100%

Sample	Result	Acceptance Criteria
Sample 1	100%	100%
Sample 2	100%	100%
Sample 3	100%	100%
Sample 4	100%	100%
Sample 5	100%	100%
Sample 6	100%	100%
Sample 7	100%	100%
Sample 8	100%	100%
Sample 9	100%	100%
Sample 10	100%	100%
Sample 11	100%	100%
Sample 12	100%	100%
Sample 13	100%	100%
Sample 14	100%	100%
Sample 15	100%	100%
Sample 16	100%	100%
Sample 17	100%	100%
Sample 18	100%	100%
Sample 19	100%	100%
Sample 20	100%	100%
Sample 21	100%	100%
Sample 22	100%	100%
Sample 23	100%	100%
Sample 24	100%	100%
Sample 25	100%	100%
Sample 26	100%	100%
Sample 27	100%	100%
Sample 28	100%	100%
Sample 29	100%	100%
Sample 30	100%	100%

Sample	Result	Acceptance Criteria
Sample 1	100%	100%
Sample 2	100%	100%
Sample 3	100%	100%
Sample 4	100%	100%
Sample 5	100%	100%
Sample 6	100%	100%
Sample 7	100%	100%
Sample 8	100%	100%
Sample 9	100%	100%
Sample 10	100%	100%
Sample 11	100%	100%
Sample 12	100%	100%
Sample 13	100%	100%
Sample 14	100%	100%
Sample 15	100%	100%
Sample 16	100%	100%
Sample 17	100%	100%
Sample 18	100%	100%
Sample 19	100%	100%
Sample 20	100%	100%
Sample 21	100%	100%
Sample 22	100%	100%
Sample 23	100%	100%
Sample 24	100%	100%
Sample 25	100%	100%
Sample 26	100%	100%
Sample 27	100%	100%
Sample 28	100%	100%
Sample 29	100%	100%
Sample 30	100%	100%

100% of samples analyzed passed all acceptance criteria. No samples were rejected for any reason.

Comments:





Quality Control Sample Performance Assessment

Quality Control Sample Performance Assessment

Sample	Target	Result	Notes
2025-01-01	100%	100%	
2025-01-15	100%	100%	
2025-02-01	100%	100%	
2025-02-15	100%	100%	
2025-03-01	100%	100%	
2025-03-15	100%	100%	
2025-04-01	100%	100%	
2025-04-15	100%	100%	
2025-05-01	100%	100%	
2025-05-15	100%	100%	
2025-06-01	100%	100%	
2025-06-15	100%	100%	
2025-07-01	100%	100%	
2025-07-15	100%	100%	
2025-08-01	100%	100%	
2025-08-15	100%	100%	
2025-09-01	100%	100%	
2025-09-15	100%	100%	
2025-10-01	100%	100%	
2025-10-15	100%	100%	
2025-11-01	100%	100%	
2025-11-15	100%	100%	
2025-12-01	100%	100%	
2025-12-15	100%	100%	

Quality Control Sample Performance Assessment

100%

100%



October 16, 2020

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

RE: Project: MCDONOUGH AP-234
Pace Project No.: 92496941

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 23, 2020 and September 25, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: MCDONOUGH AP-234
Pace Project No.: 92496941

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92496941001	DGWC-4	Water	09/22/20 09:50	09/23/20 09:35
92496941002	DGWC-5	Water	09/22/20 11:10	09/23/20 09:35
92496941003	DGWC-9	Water	09/22/20 10:00	09/23/20 09:35
92496941004	DGWC-11	Water	09/22/20 11:00	09/23/20 09:35
92496941005	DGWC-12	Water	09/22/20 15:40	09/23/20 09:35
92496941006	DGWC-14	Water	09/22/20 14:25	09/23/20 09:35
92496941007	DGWC-19	Water	09/22/20 16:10	09/23/20 09:35
92496941008	DGWC-20	Water	09/22/20 12:35	09/23/20 09:35
92496941009	DGWC-42	Water	09/22/20 16:25	09/23/20 09:35
92496941010	FB-1	Water	09/22/20 09:50	09/23/20 09:35
92496941011	FD-1	Water	09/22/20 00:00	09/23/20 09:35
92496941012	DGWC-2	Water	09/23/20 12:35	09/24/20 09:25
92496941013	DGWC-8	Water	09/23/20 16:00	09/24/20 09:25
92496941014	DGWC-13	Water	09/23/20 10:30	09/24/20 09:25
92496941015	DGWC-15	Water	09/23/20 13:55	09/24/20 09:25
92496941016	DGWC-47	Water	09/23/20 12:37	09/24/20 09:25
92496941017	DGWC-48	Water	09/23/20 09:55	09/24/20 09:25
92496941018	EB-2	Water	09/23/20 14:25	09/24/20 09:25
92496941019	FB-2	Water	09/23/20 10:22	09/24/20 09:25
92496941020	DGWC-10	Water	09/24/20 09:55	09/25/20 13:30
92496941021	DGWC-17	Water	09/24/20 14:05	09/25/20 13:30
92496941022	DGWC-21	Water	09/24/20 12:30	09/25/20 13:30
92496941023	DGWC-22	Water	09/24/20 12:20	09/25/20 13:30
92496941024	DGWC-23	Water	09/24/20 13:02	09/25/20 13:30
92496941025	FD-3	Water	09/24/20 00:00	09/25/20 13:30
92496941026	EB-3	Water	09/24/20 12:25	09/25/20 13:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92496941001	DGWC-4	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496941002	DGWC-5	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496941003	DGWC-9	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496941004	DGWC-11	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496941005	DGWC-12	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496941006	DGWC-14	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496941007	DGWC-19	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496941008	DGWC-20	EPA 6010D	KH	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92496941009	DGWC-42	EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92496941010	FB-1	SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92496941011	FD-1	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496941012	DGWC-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
92496941013	DGWC-8	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
92496941014	DGWC-13	EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92496941015	DGWC-15	SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92496941016	DGWC-47	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
92496941017	DGWC-48	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
92496941018	EB-2	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
92496941019	FB-2	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
92496941020	DGWC-10	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92496941021	DGWC-17	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
92496941022	DGWC-21	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
92496941023	DGWC-22	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92496941024	DGWC-23	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92496941025	FD-3	SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92496941026	EB-3	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: DGWC-4		Lab ID: 92496941001		Collected: 09/22/20 09:50		Received: 09/23/20 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.88	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	263	mg/L	1.0	0.070	1	09/24/20 14:20	09/25/20 22:46	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 14:13	09/30/20 19:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 14:13	09/30/20 19:49	7440-38-2	
Barium	0.030	mg/L	0.010	0.00071	1	09/29/20 14:13	09/30/20 19:49	7440-39-3	
Beryllium	0.00019J	mg/L	0.0030	0.000046	1	09/29/20 14:13	09/30/20 19:49	7440-41-7	
Boron	4.3	mg/L	0.10	0.0052	1	09/29/20 14:13	09/30/20 19:49	7440-42-8	
Cadmium	0.00065J	mg/L	0.0025	0.00012	1	09/29/20 14:13	09/30/20 19:49	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/29/20 14:13	09/30/20 19:49	7440-47-3	
Cobalt	0.0014J	mg/L	0.0050	0.00038	1	09/29/20 14:13	09/30/20 19:49	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/29/20 14:13	09/30/20 19:49	7439-92-1	
Lithium	0.0026J	mg/L	0.030	0.00081	1	09/29/20 14:13	09/30/20 19:49	7439-93-2	
Molybdenum	0.0028J	mg/L	0.010	0.00069	1	09/29/20 14:13	09/30/20 19:49	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 14:13	09/30/20 19:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 14:13	09/30/20 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	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1400	mg/L	50.0	50.0	1		09/24/20 10:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	17.0	mg/L	1.0	0.60	1		09/27/20 04:31	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/20 04:31	16984-48-8	
Sulfate	800	mg/L	11.0	5.5	11		09/27/20 10:47	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Sample: DGWC-5		Lab ID: 92496941002		Collected: 09/22/20 11:10		Received: 09/23/20 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.83	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	99.2	mg/L	1.0	0.070	1	09/24/20 14:20	09/25/20 22:50	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 14:13	09/30/20 19:55	7440-36-0	
Arsenic	0.0062	mg/L	0.0050	0.00078	1	09/29/20 14:13	09/30/20 19:55	7440-38-2	
Barium	0.017	mg/L	0.010	0.00071	1	09/29/20 14:13	09/30/20 19:55	7440-39-3	
Beryllium	0.0081	mg/L	0.0030	0.000046	1	09/29/20 14:13	09/30/20 19:55	7440-41-7	
Boron	4.6	mg/L	0.10	0.0052	1	09/29/20 14:13	09/30/20 19:55	7440-42-8	
Cadmium	0.00072J	mg/L	0.0025	0.00012	1	09/29/20 14:13	09/30/20 19:55	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/29/20 14:13	09/30/20 19:55	7440-47-3	
Cobalt	0.020	mg/L	0.0050	0.00038	1	09/29/20 14:13	09/30/20 19:55	7440-48-4	
Lead	0.000048J	mg/L	0.0050	0.000036	1	09/29/20 14:13	09/30/20 19:55	7439-92-1	
Lithium	0.0065J	mg/L	0.030	0.00081	1	09/29/20 14:13	09/30/20 19:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 14:13	09/30/20 19:55	7439-98-7	
Selenium	0.040	mg/L	0.010	0.0016	1	09/29/20 14:13	09/30/20 19:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 14:13	09/30/20 19:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00020J	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:14	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	716	mg/L	20.0	20.0	1		09/24/20 10:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.5	mg/L	1.0	0.60	1		09/27/20 04:46	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		09/27/20 04:46	16984-48-8	
Sulfate	423	mg/L	6.0	3.0	6		09/27/20 11:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: DGWC-9		Lab ID: 92496941003		Collected: 09/22/20 10:00		Received: 09/23/20 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.00	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	54.7	mg/L	1.0	0.070	1	09/25/20 15:02	09/28/20 19:50	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 14:13	09/30/20 20:00	7440-36-0	
Arsenic	0.040	mg/L	0.0050	0.00078	1	09/29/20 14:13	09/30/20 20:00	7440-38-2	
Barium	0.015	mg/L	0.010	0.00071	1	09/29/20 14:13	09/30/20 20:00	7440-39-3	
Beryllium	0.0049	mg/L	0.0030	0.000046	1	09/29/20 14:13	09/30/20 20:00	7440-41-7	
Boron	0.78	mg/L	0.10	0.0052	1	09/29/20 14:13	09/30/20 20:00	7440-42-8	
Cadmium	0.00059J	mg/L	0.0025	0.00012	1	09/29/20 14:13	09/30/20 20:00	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/29/20 14:13	09/30/20 20:00	7440-47-3	
Cobalt	0.16	mg/L	0.0050	0.00038	1	09/29/20 14:13	09/30/20 20:00	7440-48-4	
Lead	0.00015J	mg/L	0.0050	0.000036	1	09/29/20 14:13	09/30/20 20:00	7439-92-1	
Lithium	0.025J	mg/L	0.030	0.00081	1	09/29/20 14:13	09/30/20 20:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 14:13	09/30/20 20:00	7439-98-7	
Selenium	0.23	mg/L	0.010	0.0016	1	09/29/20 14:13	09/30/20 20:00	7782-49-2	
Thallium	0.00043J	mg/L	0.0010	0.00014	1	09/29/20 14:13	09/30/20 20:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00013J	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	461	mg/L	10.0	10.0	1		09/24/20 10:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	8.0	mg/L	1.0	0.60	1		09/27/20 05:00	16887-00-6	
Fluoride	0.99	mg/L	0.10	0.050	1		09/27/20 05:00	16984-48-8	
Sulfate	282	mg/L	4.0	2.0	4		09/27/20 11:59	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWC-11 Lab ID: 92496941004 Collected: 09/22/20 11:00 Received: 09/23/20 09:35 Matrix: Water									
Field Data Analytical Method: Pace Analytical Services - Charlotte									
pH	5.54	Std. Units			1		10/08/20 08:16		
6010D ATL ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	72.7	mg/L	1.0	0.070	1	09/25/20 15:02	09/28/20 20:16	7440-70-2	
6020 MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 14:13	09/30/20 20:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 14:13	09/30/20 20:06	7440-38-2	
Barium	0.058	mg/L	0.010	0.00071	1	09/29/20 14:13	09/30/20 20:06	7440-39-3	
Beryllium	0.00015J	mg/L	0.0030	0.000046	1	09/29/20 14:13	09/30/20 20:06	7440-41-7	
Boron	1.3	mg/L	0.10	0.0052	1	09/29/20 14:13	09/30/20 20:06	7440-42-8	
Cadmium	0.00016J	mg/L	0.0025	0.00012	1	09/29/20 14:13	09/30/20 20:06	7440-43-9	
Chromium	0.00058J	mg/L	0.010	0.00055	1	09/29/20 14:13	09/30/20 20:06	7440-47-3	
Cobalt	0.00098J	mg/L	0.0050	0.00038	1	09/29/20 14:13	09/30/20 20:06	7440-48-4	
Lead	0.00010J	mg/L	0.0050	0.000036	1	09/29/20 14:13	09/30/20 20:06	7439-92-1	
Lithium	0.0019J	mg/L	0.030	0.00081	1	09/29/20 14:13	09/30/20 20:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 14:13	09/30/20 20:06	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 14:13	09/30/20 20:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 14:13	09/30/20 20:06	7440-28-0	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:19	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	481	mg/L	10.0	10.0	1		09/24/20 10:31		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	16.0	mg/L	1.0	0.60	1		09/27/20 05:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/20 05:15	16984-48-8	
Sulfate	267	mg/L	4.0	2.0	4		09/27/20 12:13	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWC-12									
Lab ID: 92496941005									
Collected: 09/22/20 15:40									
Received: 09/23/20 09:35									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.00	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	55.4	mg/L	1.0	0.070	1	09/25/20 15:02	09/28/20 20:20	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:28	09/30/20 17:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:28	09/30/20 17:47	7440-38-2	
Barium	0.036	mg/L	0.010	0.00071	1	09/29/20 18:28	09/30/20 17:47	7440-39-3	
Beryllium	0.00017J	mg/L	0.0030	0.000046	1	09/29/20 18:28	09/30/20 17:47	7440-41-7	
Boron	4.2	mg/L	0.10	0.0052	1	09/29/20 18:28	09/30/20 17:47	7440-42-8	
Cadmium	0.00017J	mg/L	0.0025	0.00012	1	09/29/20 18:28	09/30/20 17:47	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/29/20 18:28	09/30/20 17:47	7440-47-3	
Cobalt	0.013	mg/L	0.0050	0.00038	1	09/29/20 18:28	09/30/20 17:47	7440-48-4	
Lead	0.00011J	mg/L	0.0050	0.000036	1	09/29/20 18:28	09/30/20 17:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/29/20 18:28	09/30/20 17:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 18:28	09/30/20 17:47	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 18:28	09/30/20 17:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:28	09/30/20 17:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:26	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	338	mg/L	10.0	10.0	1		09/25/20 21:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	10.8	mg/L	1.0	0.60	1		09/27/20 05:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/20 05:58	16984-48-8	
Sulfate	183	mg/L	3.0	1.5	3		09/27/20 12:27	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: DGWC-14 **Lab ID: 92496941006** Collected: 09/22/20 14:25 Received: 09/23/20 09:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.70	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.6	mg/L	1.0	0.070	1	09/25/20 15:02	09/28/20 20:24	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0011J	mg/L	0.0030	0.00028	1	09/29/20 18:28	09/30/20 18:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:28	09/30/20 18:10	7440-38-2	
Barium	0.060	mg/L	0.010	0.00071	1	09/29/20 18:28	09/30/20 18:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/29/20 18:28	09/30/20 18:10	7440-41-7	
Boron	0.086J	mg/L	0.10	0.0052	1	09/29/20 18:28	09/30/20 18:10	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/29/20 18:28	09/30/20 18:10	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/29/20 18:28	09/30/20 18:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/29/20 18:28	09/30/20 18:10	7440-48-4	
Lead	0.000044J	mg/L	0.0050	0.000036	1	09/29/20 18:28	09/30/20 18:10	7439-92-1	
Lithium	0.0038J	mg/L	0.030	0.00081	1	09/29/20 18:28	09/30/20 18:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 18:28	09/30/20 18:10	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 18:28	09/30/20 18:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:28	09/30/20 18:10	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	105	mg/L	10.0	10.0	1		09/25/20 21:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.2	mg/L	1.0	0.60	1		09/27/20 06:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/20 06:12	16984-48-8	
Sulfate	40.2	mg/L	1.0	0.50	1		09/27/20 06:12	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWC-19									
Lab ID: 92496941007									
Collected: 09/22/20 16:10 Received: 09/23/20 09:35 Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.91	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	103	mg/L	1.0	0.070	1	09/25/20 15:02	09/28/20 20:29	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00036J	mg/L	0.0030	0.00028	1	09/29/20 18:28	09/30/20 18:16	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.00078	1	09/29/20 18:28	09/30/20 18:16	7440-38-2	
Barium	0.026	mg/L	0.010	0.00071	1	09/29/20 18:28	09/30/20 18:16	7440-39-3	
Beryllium	0.0020J	mg/L	0.0030	0.000046	1	09/29/20 18:28	09/30/20 18:16	7440-41-7	
Boron	2.6	mg/L	0.10	0.0052	1	09/29/20 18:28	09/30/20 18:16	7440-42-8	
Cadmium	0.00036J	mg/L	0.0025	0.00012	1	09/29/20 18:28	09/30/20 18:16	7440-43-9	
Chromium	0.0030J	mg/L	0.010	0.00055	1	09/29/20 18:28	09/30/20 18:16	7440-47-3	
Cobalt	0.051	mg/L	0.0050	0.00038	1	09/29/20 18:28	09/30/20 18:16	7440-48-4	
Lead	0.00016J	mg/L	0.0050	0.000036	1	09/29/20 18:28	09/30/20 18:16	7439-92-1	
Lithium	0.0034J	mg/L	0.030	0.00081	1	09/29/20 18:28	09/30/20 18:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 18:28	09/30/20 18:16	7439-98-7	
Selenium	0.0052J	mg/L	0.010	0.0016	1	09/29/20 18:28	09/30/20 18:16	7782-49-2	
Thallium	0.00050J	mg/L	0.0010	0.00014	1	09/29/20 18:28	09/30/20 18:16	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:31	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	513	mg/L	10.0	10.0	1		09/25/20 21:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	27.6	mg/L	1.0	0.60	1		09/27/20 06:56	16887-00-6	
Fluoride	0.084J	mg/L	0.10	0.050	1		09/27/20 06:56	16984-48-8	
Sulfate	310	mg/L	4.0	2.0	4		09/27/20 12:41	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: DGWC-20		Lab ID: 92496941008		Collected: 09/22/20 12:35		Received: 09/23/20 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.66	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	79.2	mg/L	1.0	0.070	1	09/25/20 15:02	09/28/20 20:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:28	09/30/20 18:21	7440-36-0	
Arsenic	0.0063	mg/L	0.0050	0.00078	1	09/29/20 18:28	09/30/20 18:21	7440-38-2	
Barium	0.011	mg/L	0.010	0.00071	1	09/29/20 18:28	09/30/20 18:21	7440-39-3	
Beryllium	0.0027J	mg/L	0.0030	0.000046	1	09/29/20 18:28	09/30/20 18:21	7440-41-7	
Boron	4.9	mg/L	0.10	0.0052	1	09/29/20 18:28	09/30/20 18:21	7440-42-8	
Cadmium	0.0014J	mg/L	0.0025	0.00012	1	09/29/20 18:28	09/30/20 18:21	7440-43-9	
Chromium	0.0013J	mg/L	0.010	0.00055	1	09/29/20 18:28	09/30/20 18:21	7440-47-3	
Cobalt	0.47	mg/L	0.0050	0.00038	1	09/29/20 18:28	09/30/20 18:21	7440-48-4	
Lead	0.00013J	mg/L	0.0050	0.000036	1	09/29/20 18:28	09/30/20 18:21	7439-92-1	
Lithium	0.0026J	mg/L	0.030	0.00081	1	09/29/20 18:28	09/30/20 18:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 18:28	09/30/20 18:21	7439-98-7	
Selenium	0.023	mg/L	0.010	0.0016	1	09/29/20 18:28	09/30/20 18:21	7782-49-2	
Thallium	0.00055J	mg/L	0.0010	0.00014	1	09/29/20 18:28	09/30/20 18:21	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	724	mg/L	20.0	20.0	1		09/25/20 21:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	25.8	mg/L	1.0	0.60	1		09/27/20 07:11	16887-00-6	
Fluoride	0.15	mg/L	0.10	0.050	1		09/27/20 07:11	16984-48-8	
Sulfate	408	mg/L	6.0	3.0	6		09/27/20 12:55	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Sample: DGWC-42		Lab ID: 92496941009		Collected: 09/22/20 16:25		Received: 09/23/20 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.76	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	43.8	mg/L	1.0	0.070	1	09/25/20 15:02	09/28/20 20:37	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:28	09/30/20 18:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:28	09/30/20 18:27	7440-38-2	
Barium	0.016	mg/L	0.010	0.00071	1	09/29/20 18:28	09/30/20 18:27	7440-39-3	
Beryllium	0.0013J	mg/L	0.0030	0.000046	1	09/29/20 18:28	09/30/20 18:27	7440-41-7	
Boron	0.88	mg/L	0.10	0.0052	1	09/29/20 18:28	09/30/20 18:27	7440-42-8	
Cadmium	0.00070J	mg/L	0.0025	0.00012	1	09/29/20 18:28	09/30/20 18:27	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00055	1	09/29/20 18:28	09/30/20 18:27	7440-47-3	
Cobalt	0.014	mg/L	0.0050	0.00038	1	09/29/20 18:28	09/30/20 18:27	7440-48-4	
Lead	0.00074J	mg/L	0.0050	0.000036	1	09/29/20 18:28	09/30/20 18:27	7439-92-1	
Lithium	0.0099J	mg/L	0.030	0.00081	1	09/29/20 18:28	09/30/20 18:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 18:28	09/30/20 18:27	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 18:28	09/30/20 18:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:28	09/30/20 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	0.00050	0.000078	1	09/28/20 11:50	09/29/20 13:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	547	mg/L	10.0	10.0	1		09/25/20 21:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	22.1	mg/L	1.0	0.60	1		09/27/20 07:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/20 07:25	16984-48-8	
Sulfate	320	mg/L	5.0	2.5	5		09/27/20 13:09	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: FB-1 **Lab ID: 92496941010** Collected: 09/22/20 09:50 Received: 09/23/20 09:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	09/25/20 15:02	09/28/20 20:42	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:28	09/30/20 18:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:28	09/30/20 18:44	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	09/29/20 18:28	09/30/20 18:44	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/29/20 18:28	09/30/20 18:44	7440-41-7	
Boron	ND	mg/L	0.10	0.0052	1	09/29/20 18:28	09/30/20 18:44	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/29/20 18:28	09/30/20 18:44	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/29/20 18:28	09/30/20 18:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/29/20 18:28	09/30/20 18:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/29/20 18:28	09/30/20 18:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/29/20 18:28	09/30/20 18:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 18:28	09/30/20 18:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 18:28	09/30/20 18:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:28	09/30/20 18:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:35	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/25/20 21:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		09/27/20 07:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/20 07:40	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/27/20 07:40	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: FD-1 **Lab ID: 92496941011** Collected: 09/22/20 00:00 Received: 09/23/20 09:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.9	mg/L	1.0	0.070	1	09/25/20 15:02	09/28/20 20:46	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:28	09/30/20 18:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:28	09/30/20 18:50	7440-38-2	
Barium	0.060	mg/L	0.010	0.00071	1	09/29/20 18:28	09/30/20 18:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/29/20 18:28	09/30/20 18:50	7440-41-7	
Boron	0.066J	mg/L	0.10	0.0052	1	09/29/20 18:28	09/30/20 18:50	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/29/20 18:28	09/30/20 18:50	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/29/20 18:28	09/30/20 18:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/29/20 18:28	09/30/20 18:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/29/20 18:28	09/30/20 18:50	7439-92-1	
Lithium	0.0039J	mg/L	0.030	0.00081	1	09/29/20 18:28	09/30/20 18:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 18:28	09/30/20 18:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 18:28	09/30/20 18:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:28	09/30/20 18:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	96.0	mg/L	10.0	10.0	1		09/25/20 21:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.2	mg/L	1.0	0.60	1		09/27/20 07:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/27/20 07:54	16984-48-8	
Sulfate	40.7	mg/L	1.0	0.50	1		09/27/20 07:54	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWC-2 Lab ID: 92496941012 Collected: 09/23/20 12:35 Received: 09/24/20 09:25 Matrix: Water									
Field Data Analytical Method: Pace Analytical Services - Charlotte									
pH	5.99	Std. Units			1		10/08/20 08:16		
6010D ATL ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	44.4	mg/L	1.0	0.070	1	09/29/20 14:17	09/29/20 21:31	7440-70-2	
6020 MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:39	10/01/20 12:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:39	10/01/20 12:34	7440-38-2	
Barium	0.023	mg/L	0.010	0.00071	1	09/29/20 18:39	10/01/20 12:34	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/29/20 18:39	10/01/20 12:34	7440-41-7	
Boron	0.57	mg/L	0.10	0.0052	1	09/29/20 18:39	10/01/20 12:34	7440-42-8	
Cadmium	0.00013J	mg/L	0.0025	0.00012	1	09/29/20 18:39	10/01/20 12:34	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/29/20 18:39	10/01/20 12:34	7440-47-3	
Cobalt	0.0062	mg/L	0.0050	0.00038	1	09/29/20 18:39	10/01/20 12:34	7440-48-4	
Lead	0.000094J	mg/L	0.0050	0.000036	1	09/29/20 18:39	10/01/20 12:34	7439-92-1	
Lithium	0.022J	mg/L	0.030	0.00081	1	09/29/20 18:39	10/01/20 12:34	7439-93-2	
Molybdenum	0.0022J	mg/L	0.010	0.00069	1	09/29/20 18:39	10/01/20 12:34	7439-98-7	
Selenium	0.0046J	mg/L	0.010	0.0016	1	09/29/20 18:39	10/01/20 12:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:39	10/01/20 12:34	7440-28-0	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:40	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	267	mg/L	10.0	10.0	1		09/28/20 11:53		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.1	mg/L	1.0	0.60	1		09/29/20 14:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/29/20 14:35	16984-48-8	
Sulfate	122	mg/L	3.0	1.5	3		09/29/20 21:35	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Sample: DGWC-8		Lab ID: 92496941013		Collected: 09/23/20 16:00		Received: 09/24/20 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.21	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	39.3	mg/L	1.0	0.070	1	09/29/20 14:17	09/29/20 21:35	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:39	10/01/20 12:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:39	10/01/20 12:39	7440-38-2	
Barium	0.025	mg/L	0.010	0.00071	1	09/29/20 18:39	10/01/20 12:39	7440-39-3	
Beryllium	0.0015J	mg/L	0.0030	0.000046	1	09/29/20 18:39	10/01/20 12:39	7440-41-7	
Boron	1.0	mg/L	0.10	0.0052	1	09/29/20 18:39	10/01/20 12:39	7440-42-8	
Cadmium	0.0018J	mg/L	0.0025	0.00012	1	09/29/20 18:39	10/01/20 12:39	7440-43-9	
Chromium	0.00086J	mg/L	0.010	0.00055	1	09/29/20 18:39	10/01/20 12:39	7440-47-3	
Cobalt	0.040	mg/L	0.0050	0.00038	1	09/29/20 18:39	10/01/20 12:39	7440-48-4	
Lead	0.00011J	mg/L	0.0050	0.000036	1	09/29/20 18:39	10/01/20 12:39	7439-92-1	
Lithium	0.0045J	mg/L	0.030	0.00081	1	09/29/20 18:39	10/01/20 12:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 18:39	10/01/20 12:39	7439-98-7	
Selenium	0.0028J	mg/L	0.010	0.0016	1	09/29/20 18:39	10/01/20 12:39	7782-49-2	
Thallium	0.00020J	mg/L	0.0010	0.00014	1	09/29/20 18:39	10/01/20 12:39	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	333	mg/L	10.0	10.0	1		09/28/20 11:53		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.1	mg/L	1.0	0.60	1		09/29/20 14:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/29/20 14:49	16984-48-8	
Sulfate	178	mg/L	4.0	2.0	4		09/29/20 21:49	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: DGWC-13 **Lab ID: 92496941014** Collected: 09/23/20 10:30 Received: 09/24/20 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.72	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	39.0	mg/L	1.0	0.070	1	09/29/20 14:17	09/29/20 21:48	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:39	10/01/20 12:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:39	10/01/20 12:45	7440-38-2	
Barium	0.030	mg/L	0.010	0.00071	1	09/29/20 18:39	10/01/20 12:45	7440-39-3	
Beryllium	0.000068J	mg/L	0.0030	0.000046	1	09/29/20 18:39	10/01/20 12:45	7440-41-7	
Boron	0.57	mg/L	0.10	0.0052	1	09/29/20 18:39	10/01/20 12:45	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/29/20 18:39	10/01/20 12:45	7440-43-9	
Chromium	0.00059J	mg/L	0.010	0.00055	1	09/29/20 18:39	10/01/20 12:45	7440-47-3	
Cobalt	0.00038J	mg/L	0.0050	0.00038	1	09/29/20 18:39	10/01/20 12:45	7440-48-4	
Lead	0.000098J	mg/L	0.0050	0.000036	1	09/29/20 18:39	10/01/20 12:45	7439-92-1	
Lithium	0.0033J	mg/L	0.030	0.00081	1	09/29/20 18:39	10/01/20 12:45	7439-93-2	
Molybdenum	0.012	mg/L	0.010	0.00069	1	09/29/20 18:39	10/01/20 12:45	7439-98-7	
Selenium	0.0053J	mg/L	0.010	0.0016	1	09/29/20 18:39	10/01/20 12:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:39	10/01/20 12:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	278	mg/L	10.0	10.0	1		09/28/20 11:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	12.6	mg/L	1.0	0.60	1		09/29/20 15:04	16887-00-6	
Fluoride	0.058J	mg/L	0.10	0.050	1		09/29/20 15:04	16984-48-8	
Sulfate	134	mg/L	3.0	1.5	3		09/29/20 22:04	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DGWC-15 Lab ID: 92496941015 Collected: 09/23/20 13:55 Received: 09/24/20 09:25 Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.85	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	35.6	mg/L	1.0	0.070	1	09/29/20 14:17	09/29/20 21:52	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 14:00	10/01/20 14:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 14:00	10/01/20 14:32	7440-38-2	
Barium	0.043	mg/L	0.010	0.00071	1	09/30/20 14:00	10/01/20 14:32	7440-39-3	
Beryllium	0.000058J	mg/L	0.0030	0.000046	1	09/30/20 14:00	10/01/20 14:32	7440-41-7	
Boron	1.6	mg/L	0.10	0.0052	1	09/30/20 14:00	10/01/20 14:32	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 14:00	10/01/20 14:32	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 14:00	10/01/20 14:32	7440-47-3	
Cobalt	0.0018J	mg/L	0.0050	0.00038	1	09/30/20 14:00	10/01/20 14:32	7440-48-4	
Lead	0.000082J	mg/L	0.0050	0.000036	1	09/30/20 14:00	10/01/20 14:32	7439-92-1	
Lithium	0.0060J	mg/L	0.030	0.00081	1	09/30/20 14:00	10/01/20 14:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 14:00	10/01/20 14:32	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 14:00	10/01/20 14:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 14:00	10/01/20 14:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	317	mg/L	10.0	10.0	1		09/28/20 11:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	22.4	mg/L	1.0	0.60	1		09/29/20 15:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/29/20 15:18	16984-48-8	
Sulfate	146	mg/L	3.0	1.5	3		09/29/20 22:18	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Sample: DGWC-47		Lab ID: 92496941016		Collected: 09/23/20 12:37		Received: 09/24/20 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.40	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	22.3	mg/L	1.0	0.070	1	09/29/20 14:17	09/29/20 21:57	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0012J	mg/L	0.0030	0.00028	1	09/30/20 14:00	10/01/20 14:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 14:00	10/01/20 14:55	7440-38-2	
Barium	0.014	mg/L	0.010	0.00071	1	09/30/20 14:00	10/01/20 14:55	7440-39-3	
Beryllium	0.0069	mg/L	0.0030	0.000046	1	09/30/20 14:00	10/01/20 14:55	7440-41-7	
Boron	0.21	mg/L	0.10	0.0052	1	09/30/20 14:00	10/01/20 14:55	7440-42-8	
Cadmium	0.0013J	mg/L	0.0025	0.00012	1	09/30/20 14:00	10/01/20 14:55	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 14:00	10/01/20 14:55	7440-47-3	
Cobalt	0.17	mg/L	0.0050	0.00038	1	09/30/20 14:00	10/01/20 14:55	7440-48-4	
Lead	0.00053J	mg/L	0.0050	0.000036	1	09/30/20 14:00	10/01/20 14:55	7439-92-1	
Lithium	0.046	mg/L	0.030	0.00081	1	09/30/20 14:00	10/01/20 14:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 14:00	10/01/20 14:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 14:00	10/01/20 14:55	7782-49-2	
Thallium	0.00026J	mg/L	0.0010	0.00014	1	09/30/20 14:00	10/01/20 14:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:54	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	229	mg/L	10.0	10.0	1		09/28/20 11:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.3	mg/L	1.0	0.60	1		09/29/20 15:33	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		09/29/20 15:33	16984-48-8	
Sulfate	111	mg/L	3.0	1.5	3		09/29/20 23:02	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: DGWC-48		Lab ID: 92496941017		Collected: 09/23/20 09:55		Received: 09/24/20 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.64	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	72.2	mg/L	1.0	0.070	1	09/29/20 14:17	09/29/20 22:01	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00039J	mg/L	0.0030	0.00028	1	09/30/20 14:00	10/01/20 15:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 14:00	10/01/20 15:01	7440-38-2	
Barium	0.013	mg/L	0.010	0.00071	1	09/30/20 14:00	10/01/20 15:01	7440-39-3	
Beryllium	0.0072	mg/L	0.0030	0.000046	1	09/30/20 14:00	10/01/20 15:01	7440-41-7	
Boron	0.65	mg/L	0.10	0.0052	1	09/30/20 14:00	10/01/20 15:01	7440-42-8	
Cadmium	0.0025	mg/L	0.0025	0.00012	1	09/30/20 14:00	10/01/20 15:01	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 14:00	10/01/20 15:01	7440-47-3	
Cobalt	0.37	mg/L	0.0050	0.00038	1	09/30/20 14:00	10/01/20 15:01	7440-48-4	
Lead	0.0010J	mg/L	0.0050	0.000036	1	09/30/20 14:00	10/01/20 15:01	7439-92-1	
Lithium	0.10	mg/L	0.030	0.00081	1	09/30/20 14:00	10/01/20 15:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 14:00	10/01/20 15:01	7439-98-7	
Selenium	0.0016J	mg/L	0.010	0.0016	1	09/30/20 14:00	10/01/20 15:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 14:00	10/01/20 15:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	575	mg/L	10.0	10.0	1		09/28/20 11:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	8.0	mg/L	1.0	0.60	1		09/29/20 15:47	16887-00-6	
Fluoride	0.32	mg/L	0.10	0.050	1		09/29/20 15:47	16984-48-8	
Sulfate	313	mg/L	7.0	3.5	7		09/29/20 23:16	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: EB-2		Lab ID: 92496941018		Collected: 09/23/20 14:25	Received: 09/24/20 09:25	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	09/29/20 14:17	09/29/20 22:10	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 14:00	10/01/20 15:07	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 14:00	10/01/20 15:07	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	09/30/20 14:00	10/01/20 15:07	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 14:00	10/01/20 15:07	7440-41-7		
Boron	0.0055J	mg/L	0.10	0.0052	1	09/30/20 14:00	10/01/20 15:07	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 14:00	10/01/20 15:07	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 14:00	10/01/20 15:07	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 14:00	10/01/20 15:07	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 14:00	10/01/20 15:07	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	09/30/20 14:00	10/01/20 15:07	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 14:00	10/01/20 15:07	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 14:00	10/01/20 15:07	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 14:00	10/01/20 15:07	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 12:59	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/28/20 11:54			
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		09/29/20 16:01	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/29/20 16:01	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/29/20 16:01	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: FB-2		Lab ID: 92496941019		Collected: 09/23/20 10:22	Received: 09/24/20 09:25	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	09/29/20 18:42	09/30/20 16:23	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 14:00	10/01/20 15:12	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 14:00	10/01/20 15:12	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	09/30/20 14:00	10/01/20 15:12	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 14:00	10/01/20 15:12	7440-41-7		
Boron	ND	mg/L	0.10	0.0052	1	09/30/20 14:00	10/01/20 15:12	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 14:00	10/01/20 15:12	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 14:00	10/01/20 15:12	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 14:00	10/01/20 15:12	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 14:00	10/01/20 15:12	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	09/30/20 14:00	10/01/20 15:12	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 14:00	10/01/20 15:12	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 14:00	10/01/20 15:12	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 14:00	10/01/20 15:12	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/28/20 11:50	09/29/20 13:02	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/28/20 14:27			
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		09/29/20 17:14	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/29/20 17:14	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/29/20 17:14	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Sample: DGWC-10	Lab ID: 92496941020	Collected: 09/24/20 09:55	Received: 09/25/20 13:30	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:16		
pH	4.89	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	53.1	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 19:32	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 17:45	10/01/20 23:27	7440-36-0	
Arsenic	0.0078	mg/L	0.0050	0.00078	1	09/30/20 17:45	10/01/20 23:27	7440-38-2	
Barium	0.021	mg/L	0.010	0.00071	1	09/30/20 17:45	10/01/20 23:27	7440-39-3	
Beryllium	0.0077	mg/L	0.0030	0.000046	1	09/30/20 17:45	10/01/20 23:27	7440-41-7	
Boron	0.45	mg/L	0.10	0.0052	1	09/30/20 17:45	10/06/20 12:52	7440-42-8	
Cadmium	0.00055J	mg/L	0.0025	0.00012	1	09/30/20 17:45	10/01/20 23:27	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00055	1	09/30/20 17:45	10/01/20 23:27	7440-47-3	
Cobalt	0.086	mg/L	0.0050	0.00038	1	09/30/20 17:45	10/01/20 23:27	7440-48-4	
Lead	0.00013J	mg/L	0.0050	0.000036	1	09/30/20 17:45	10/01/20 23:27	7439-92-1	
Lithium	0.0049J	mg/L	0.030	0.00081	1	09/30/20 17:45	10/01/20 23:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:45	10/01/20 23:27	7439-98-7	
Selenium	0.074	mg/L	0.010	0.0016	1	09/30/20 17:45	10/01/20 23:27	7782-49-2	
Thallium	0.00034J	mg/L	0.0010	0.00014	1	09/30/20 17:45	10/01/20 23:27	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000081J	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 13:11	7439-97-6	B
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	283	mg/L	10.0	10.0	1		09/30/20 09:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.9	mg/L	1.0	0.60	1		09/30/20 01:11	16887-00-6	
Fluoride	0.97	mg/L	0.10	0.050	1		09/30/20 01:11	16984-48-8	
Sulfate	204	mg/L	4.0	2.0	4		09/30/20 08:08	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: DGWC-17 **Lab ID: 92496941021** Collected: 09/24/20 14:05 Received: 09/25/20 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:16		
pH	5.10	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	12.7	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 19:50	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00045J	mg/L	0.0030	0.00028	1	09/30/20 17:45	10/01/20 23:33	7440-36-0	
Arsenic	0.0011J	mg/L	0.0050	0.00078	1	09/30/20 17:45	10/01/20 23:33	7440-38-2	
Barium	0.033	mg/L	0.010	0.00071	1	09/30/20 17:45	10/01/20 23:33	7440-39-3	
Beryllium	0.00060J	mg/L	0.0030	0.000046	1	09/30/20 17:45	10/01/20 23:33	7440-41-7	
Boron	0.88	mg/L	0.50	0.026	5	09/30/20 17:45	10/03/20 13:45	7440-42-8	
Cadmium	0.00024J	mg/L	0.0025	0.00012	1	09/30/20 17:45	10/01/20 23:33	7440-43-9	
Chromium	0.0029J	mg/L	0.010	0.00055	1	09/30/20 17:45	10/01/20 23:33	7440-47-3	
Cobalt	0.028	mg/L	0.0050	0.00038	1	09/30/20 17:45	10/01/20 23:33	7440-48-4	
Lead	0.000079J	mg/L	0.0050	0.000036	1	09/30/20 17:45	10/01/20 23:33	7439-92-1	
Lithium	0.00096J	mg/L	0.030	0.00081	1	09/30/20 17:45	10/01/20 23:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:45	10/01/20 23:33	7439-98-7	
Selenium	0.015	mg/L	0.010	0.0016	1	09/30/20 17:45	10/01/20 23:33	7782-49-2	
Thallium	0.00018J	mg/L	0.0010	0.00014	1	09/30/20 17:45	10/01/20 23:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000082J	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 13:20	7439-97-6	B
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	411	mg/L	10.0	10.0	1		09/29/20 18:56		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	22.7	mg/L	1.0	0.60	1		09/30/20 01:54	16887-00-6	
Fluoride	0.056J	mg/L	0.10	0.050	1		09/30/20 01:54	16984-48-8	
Sulfate	259	mg/L	5.0	2.5	5		09/30/20 08:29	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: DGWC-21 **Lab ID: 92496941022** Collected: 09/24/20 12:30 Received: 09/25/20 13:30 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		10/08/20 08:16		
pH	5.64	Std. Units			1		10/08/20 08:16		

6010D ATL ICP

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

Calcium	80.0	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 19:54	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	0.00028	1	09/30/20 17:45	10/01/20 23:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 17:45	10/01/20 23:39	7440-38-2	
Barium	0.024	mg/L	0.010	0.00071	1	09/30/20 17:45	10/01/20 23:39	7440-39-3	
Beryllium	0.00018J	mg/L	0.0030	0.000046	1	09/30/20 17:45	10/01/20 23:39	7440-41-7	
Boron	6.1	mg/L	0.50	0.026	5	09/30/20 17:45	10/03/20 13:51	7440-42-8	
Cadmium	0.00073J	mg/L	0.0025	0.00012	1	09/30/20 17:45	10/01/20 23:39	7440-43-9	
Chromium	0.00096J	mg/L	0.010	0.00055	1	09/30/20 17:45	10/01/20 23:39	7440-47-3	
Cobalt	0.010	mg/L	0.0050	0.00038	1	09/30/20 17:45	10/01/20 23:39	7440-48-4	
Lead	0.00014J	mg/L	0.0050	0.000036	1	09/30/20 17:45	10/01/20 23:39	7439-92-1	
Lithium	0.0062J	mg/L	0.030	0.00081	1	09/30/20 17:45	10/01/20 23:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:45	10/01/20 23:39	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 17:45	10/01/20 23:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:45	10/01/20 23:39	7440-28-0	

7470 Mercury

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

Mercury	0.00012J	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 13:23	7439-97-6	B
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2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	494	mg/L	10.0	10.0	1		09/29/20 19:04		
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300.0 IC Anions 28 Days

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

Chloride	20.0	mg/L	1.0	0.60	1		09/30/20 02:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 02:09	16984-48-8	
Sulfate	269	mg/L	6.0	3.0	6		09/30/20 09:18	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: DGWC-22 **Lab ID: 92496941023** Collected: 09/24/20 12:20 Received: 09/25/20 13:30 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		10/08/20 08:16		
pH	5.69	Std. Units			1		10/08/20 08:16		

6010D ATL ICP

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

Calcium	62.6	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:07	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	0.00028	1	09/30/20 17:45	10/01/20 23:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 17:45	10/01/20 23:45	7440-38-2	
Barium	0.031	mg/L	0.010	0.00071	1	09/30/20 17:45	10/01/20 23:45	7440-39-3	
Beryllium	0.00017J	mg/L	0.0030	0.000046	1	09/30/20 17:45	10/01/20 23:45	7440-41-7	
Boron	4.1	mg/L	0.50	0.026	5	09/30/20 17:45	10/03/20 13:57	7440-42-8	
Cadmium	0.00058J	mg/L	0.0025	0.00012	1	09/30/20 17:45	10/01/20 23:45	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 17:45	10/01/20 23:45	7440-47-3	
Cobalt	0.010	mg/L	0.0050	0.00038	1	09/30/20 17:45	10/01/20 23:45	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 17:45	10/01/20 23:45	7439-92-1	
Lithium	0.0037J	mg/L	0.030	0.00081	1	09/30/20 17:45	10/01/20 23:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:45	10/01/20 23:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 17:45	10/01/20 23:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:45	10/01/20 23:45	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 13:25	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	455	mg/L	10.0	10.0	1		09/29/20 19:04		
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300.0 IC Anions 28 Days

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

Chloride	21.5	mg/L	1.0	0.60	1		09/30/20 02:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 02:23	16984-48-8	
Sulfate	262	mg/L	5.0	2.5	5		09/30/20 09:38	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: DGWC-23 **Lab ID: 92496941024** Collected: 09/24/20 13:02 Received: 09/25/20 13:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:16		
pH	6.19	Std. Units			1		10/08/20 08:16		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	73.7	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:11	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 17:45	10/01/20 23:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 17:45	10/01/20 23:50	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	09/30/20 17:45	10/01/20 23:50	7440-39-3	
Beryllium	0.00045J	mg/L	0.0030	0.000046	1	09/30/20 17:45	10/01/20 23:50	7440-41-7	
Boron	4.6	mg/L	0.50	0.026	5	09/30/20 17:45	10/03/20 14:03	7440-42-8	
Cadmium	0.00018J	mg/L	0.0025	0.00012	1	09/30/20 17:45	10/01/20 23:50	7440-43-9	
Chromium	0.00084J	mg/L	0.010	0.00055	1	09/30/20 17:45	10/01/20 23:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 17:45	10/01/20 23:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 17:45	10/01/20 23:50	7439-92-1	
Lithium	0.0045J	mg/L	0.030	0.00081	1	09/30/20 17:45	10/01/20 23:50	7439-93-2	
Molybdenum	0.0088J	mg/L	0.010	0.00069	1	09/30/20 17:45	10/01/20 23:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 17:45	10/01/20 23:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:45	10/01/20 23:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00020J	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 13:28	7439-97-6	B
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	456	mg/L	10.0	10.0	1		09/29/20 19:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.7	mg/L	1.0	0.60	1		09/30/20 16:54	16887-00-6	
Fluoride	0.075J	mg/L	0.10	0.050	1		09/30/20 16:54	16984-48-8	
Sulfate	215	mg/L	5.0	2.5	5		09/30/20 19:52	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Sample: FD-3		Lab ID: 92496941025		Collected: 09/24/20 00:00	Received: 09/25/20 13:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	12.7	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:15	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 17:48	10/03/20 17:51	7440-36-0	
Arsenic	0.00088J	mg/L	0.0050	0.00078	1	09/30/20 17:48	10/03/20 17:51	7440-38-2	
Barium	0.032	mg/L	0.010	0.00071	1	09/30/20 17:48	10/03/20 17:51	7440-39-3	
Beryllium	0.00070J	mg/L	0.0030	0.000046	1	09/30/20 17:48	10/03/20 17:51	7440-41-7	
Boron	0.84	mg/L	0.10	0.0052	1	09/30/20 17:48	10/03/20 17:51	7440-42-8	
Cadmium	0.00028J	mg/L	0.0025	0.00012	1	09/30/20 17:48	10/03/20 17:51	7440-43-9	
Chromium	0.0028J	mg/L	0.010	0.00055	1	09/30/20 17:48	10/03/20 17:51	7440-47-3	
Cobalt	0.027	mg/L	0.0050	0.00038	1	09/30/20 17:48	10/03/20 17:51	7440-48-4	
Lead	0.00022J	mg/L	0.0050	0.000036	1	09/30/20 17:48	10/03/20 17:51	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00081	1	09/30/20 17:48	10/03/20 17:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:48	10/03/20 17:51	7439-98-7	
Selenium	0.012	mg/L	0.010	0.0016	1	09/30/20 17:48	10/03/20 17:51	7782-49-2	
Thallium	0.00034J	mg/L	0.0010	0.00014	1	09/30/20 17:48	10/03/20 17:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 13:35	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	422	mg/L	10.0	10.0	1		09/29/20 19:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	22.8	mg/L	1.0	0.60	1		09/30/20 17:08	16887-00-6	
Fluoride	0.076J	mg/L	0.10	0.050	1		09/30/20 17:08	16984-48-8	
Sulfate	251	mg/L	5.0	2.5	5		09/30/20 20:06	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Sample: EB-3		Lab ID: 92496941026		Collected: 09/24/20 12:25	Received: 09/25/20 13:30	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:19	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0015J	mg/L	0.0030	0.00028	1	09/30/20 17:48	10/03/20 18:14	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 17:48	10/03/20 18:14	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	09/30/20 17:48	10/03/20 18:14	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 17:48	10/03/20 18:14	7440-41-7		
Boron	0.010J	mg/L	0.10	0.0052	1	09/30/20 17:48	10/03/20 18:14	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 17:48	10/03/20 18:14	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 17:48	10/03/20 18:14	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 17:48	10/03/20 18:14	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 17:48	10/03/20 18:14	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	09/30/20 17:48	10/03/20 18:14	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:48	10/03/20 18:14	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 17:48	10/03/20 18:14	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:48	10/03/20 18:14	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 13:37	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	19.0	mg/L	10.0	10.0	1		09/29/20 19:05			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/30/20 17:23	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 17:23	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/30/20 17:23	14808-79-8		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 568748 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941001, 92496941002

METHOD BLANK: 3013298 Matrix: Water
 Associated Lab Samples: 92496941001, 92496941002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/25/20 20:40	

LABORATORY CONTROL SAMPLE: 3013299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3013300 3013301

Parameter	Units	3013300		3013301		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495894022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	75.3	1	1	79.7	76.2	438	83	75-125	5	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

QC Batch:	569036	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92496941003, 92496941004, 92496941005, 92496941006, 92496941007, 92496941008, 92496941009, 92496941010, 92496941011

METHOD BLANK: 3014892 Matrix: Water

Associated Lab Samples: 92496941003, 92496941004, 92496941005, 92496941006, 92496941007, 92496941008, 92496941009, 92496941010, 92496941011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/28/20 19:33	

LABORATORY CONTROL SAMPLE: 3014893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3014894 3014895

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92496941003 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	54.7	1	1	57.3	56.8	256	203	75-125	1	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

QC Batch: 569672	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92496941012, 92496941013, 92496941014, 92496941015, 92496941016, 92496941017, 92496941018

METHOD BLANK: 3017857 Matrix: Water

Associated Lab Samples: 92496941012, 92496941013, 92496941014, 92496941015, 92496941016, 92496941017, 92496941018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/29/20 19:56	

LABORATORY CONTROL SAMPLE: 3017858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017859 3017860

Parameter	Units	3017859		3017860		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	2510 ug/L	1	1	3.4	3.4	93	92	75-125	0	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

QC Batch: 569776	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92496941019

METHOD BLANK: 3018383 Matrix: Water

Associated Lab Samples: 92496941019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/30/20 16:15	

LABORATORY CONTROL SAMPLE: 3018384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018385 3018386

Parameter	Units	3018385		3018386		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497532001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	45.2	1	1	47.0	47.9	181	276	75-125	2	20 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 570008 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941020, 92496941021, 92496941022, 92496941023, 92496941024, 92496941025, 92496941026

METHOD BLANK: 3019452 Matrix: Water
 Associated Lab Samples: 92496941020, 92496941021, 92496941022, 92496941023, 92496941024, 92496941025, 92496941026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	10/01/20 19:24	

LABORATORY CONTROL SAMPLE: 3019453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.96J	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3019454 3019455

Parameter	Units	92496941020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	53.1	1	1	55.5	54.3	237	115	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

QC Batch:	569670	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92496941001, 92496941002, 92496941003, 92496941004

METHOD BLANK: 3017842 Matrix: Water

Associated Lab Samples: 92496941001, 92496941002, 92496941003, 92496941004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	09/30/20 17:26	
Arsenic	mg/L	ND	0.0050	0.00078	09/30/20 17:26	
Barium	mg/L	ND	0.010	0.00071	09/30/20 17:26	
Beryllium	mg/L	ND	0.0030	0.000046	09/30/20 17:26	
Boron	mg/L	ND	0.10	0.0052	09/30/20 17:26	
Cadmium	mg/L	ND	0.0025	0.00012	09/30/20 17:26	
Chromium	mg/L	ND	0.010	0.00055	09/30/20 17:26	
Cobalt	mg/L	ND	0.0050	0.00038	09/30/20 17:26	
Lead	mg/L	ND	0.0050	0.000036	09/30/20 17:26	
Lithium	mg/L	ND	0.030	0.00081	09/30/20 17:26	
Molybdenum	mg/L	ND	0.010	0.00069	09/30/20 17:26	
Selenium	mg/L	ND	0.010	0.0016	09/30/20 17:26	
Thallium	mg/L	ND	0.0010	0.00014	09/30/20 17:26	

LABORATORY CONTROL SAMPLE: 3017843

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	0.099	99	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017844 3017845

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495894020	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	0.00029J	0.1	0.1	0.099	0.10	99	102	75-125	3	20		
Arsenic	mg/L	0.39	0.1	0.1	0.48	0.48	88	90	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameter	Units	3017844		3017845		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92495894020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.052	0.1	0.1	0.15	0.15	98	101	75-125	2	20		
Beryllium	mg/L	0.00011J	0.1	0.1	0.087	0.090	87	90	75-125	4	20		
Boron	mg/L	1.6	1	1	2.4	2.5	79	89	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20		
Chromium	mg/L	0.00056J	0.1	0.1	0.093	0.094	93	93	75-125	1	20		
Cobalt	mg/L	0.0032J	0.1	0.1	0.094	0.096	91	92	75-125	2	20		
Lead	mg/L	0.00015J	0.1	0.1	0.093	0.093	93	92	75-125	0	20		
Lithium	mg/L	0.028J	0.1	0.1	0.12	0.12	87	89	75-125	2	20		
Molybdenum	mg/L	0.032	0.1	0.1	0.13	0.13	95	99	75-125	3	20		
Selenium	mg/L	0.0016J	0.1	0.1	0.094	0.10	92	98	75-125	6	20		
Thallium	mg/L	0.00036J	0.1	0.1	0.095	0.096	94	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

QC Batch: 569772 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941005, 92496941006, 92496941007, 92496941008, 92496941009, 92496941010, 92496941011

METHOD BLANK: 3018362 Matrix: Water
 Associated Lab Samples: 92496941005, 92496941006, 92496941007, 92496941008, 92496941009, 92496941010, 92496941011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	09/30/20 17:36	
Arsenic	mg/L	ND	0.0050	0.00078	09/30/20 17:36	
Barium	mg/L	ND	0.010	0.00071	09/30/20 17:36	
Beryllium	mg/L	ND	0.0030	0.000046	09/30/20 17:36	
Boron	mg/L	ND	0.10	0.0052	09/30/20 17:36	
Cadmium	mg/L	ND	0.0025	0.00012	09/30/20 17:36	
Chromium	mg/L	ND	0.010	0.00055	09/30/20 17:36	
Cobalt	mg/L	ND	0.0050	0.00038	09/30/20 17:36	
Lead	mg/L	ND	0.0050	0.000036	09/30/20 17:36	
Lithium	mg/L	ND	0.030	0.00081	09/30/20 17:36	
Molybdenum	mg/L	ND	0.010	0.00069	09/30/20 17:36	
Selenium	mg/L	ND	0.010	0.0016	09/30/20 17:36	
Thallium	mg/L	ND	0.0010	0.00014	09/30/20 17:36	

LABORATORY CONTROL SAMPLE: 3018363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018364 3018365

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92496941005	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameter	Units	3018364		3018365		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92496941005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.036	0.1	0.1	0.13	0.14	93	99	75-125	5	20		
Beryllium	mg/L	0.00017J	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Boron	mg/L	4.2	1	1	5.1	5.2	93	101	75-125	2	20		
Cadmium	mg/L	0.00017J	0.1	0.1	0.098	0.097	97	97	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.097	0.10	97	101	75-125	5	20		
Cobalt	mg/L	0.013	0.1	0.1	0.11	0.11	92	98	75-125	5	20		
Lead	mg/L	0.00011J	0.1	0.1	0.096	0.097	95	97	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.095	0.095	94	95	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.097	95	96	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 AP-234

Pace Project No.: 92496941

QC Batch: 569774 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92496941012, 92496941013, 92496941014

METHOD BLANK: 3018372 Matrix: Water

Associated Lab Samples: 92496941012, 92496941013, 92496941014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/01/20 09:53	
Arsenic	mg/L	ND	0.0050	0.00078	10/01/20 09:53	
Barium	mg/L	ND	0.010	0.00071	10/01/20 09:53	
Beryllium	mg/L	ND	0.0030	0.000046	10/01/20 09:53	
Boron	mg/L	ND	0.10	0.0052	10/01/20 09:53	
Cadmium	mg/L	ND	0.0025	0.00012	10/01/20 09:53	
Chromium	mg/L	ND	0.010	0.00055	10/01/20 09:53	
Cobalt	mg/L	ND	0.0050	0.00038	10/01/20 09:53	
Lead	mg/L	ND	0.0050	0.000036	10/01/20 09:53	
Lithium	mg/L	ND	0.030	0.00081	10/01/20 09:53	
Molybdenum	mg/L	ND	0.010	0.00069	10/01/20 09:53	
Selenium	mg/L	ND	0.010	0.0016	10/01/20 09:53	
Thallium	mg/L	ND	0.0010	0.00014	10/01/20 09:53	

LABORATORY CONTROL SAMPLE: 3018373

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	0.097	97	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.91	91	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.092	92	80-120	
Cobalt	mg/L	0.1	0.092	92	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.092	92	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018374 3018375

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92497149004	Result	Spike Conc.	Spike Conc.							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameter	Units	3018374		3018375		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497149004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.0039J	0.1	0.1	0.10	0.10	99	100	75-125	1	20		
Beryllium	mg/L	0.000059J	0.1	0.1	0.090	0.091	90	91	75-125	1	20		
Boron	mg/L	0.0073J	1	1	0.88	0.90	87	89	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.095	0.095	94	94	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		
Lead	mg/L	0.00015J	0.1	0.1	0.093	0.094	92	94	75-125	1	20		
Lithium	mg/L	0.013J	0.1	0.1	0.10	0.10	91	91	75-125	0	20		
Molybdenum	mg/L	0.010	0.1	0.1	0.11	0.11	96	97	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.099	0.096	98	95	75-125	3	20		
Thallium	mg/L	0.00016J	0.1	0.1	0.094	0.095	94	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 570000 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941015, 92496941016, 92496941017, 92496941018, 92496941019

METHOD BLANK: 3019421 Matrix: Water
 Associated Lab Samples: 92496941015, 92496941016, 92496941017, 92496941018, 92496941019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/01/20 14:21	
Arsenic	mg/L	ND	0.0050	0.00078	10/01/20 14:21	
Barium	mg/L	ND	0.010	0.00071	10/01/20 14:21	
Beryllium	mg/L	ND	0.0030	0.000046	10/01/20 14:21	
Boron	mg/L	ND	0.10	0.0052	10/01/20 14:21	
Cadmium	mg/L	ND	0.0025	0.00012	10/01/20 14:21	
Chromium	mg/L	ND	0.010	0.00055	10/01/20 14:21	
Cobalt	mg/L	ND	0.0050	0.00038	10/01/20 14:21	
Lead	mg/L	ND	0.0050	0.000036	10/01/20 14:21	
Lithium	mg/L	ND	0.030	0.00081	10/01/20 14:21	
Molybdenum	mg/L	ND	0.010	0.00069	10/01/20 14:21	
Selenium	mg/L	ND	0.010	0.0016	10/01/20 14:21	
Thallium	mg/L	ND	0.0010	0.00014	10/01/20 14:21	

LABORATORY CONTROL SAMPLE: 3019422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3019423 3019424

Parameter	Units	92496941015 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameter	Units	3019423		3019424		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	0.043	0.1	0.1	0.15	0.15	102	102	75-125	0	20	
Beryllium	mg/L	0.000058J	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Boron	mg/L	1.6	1	1	2.6	2.7	98	111	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Cobalt	mg/L	0.0018J	0.1	0.1	0.10	0.10	99	101	75-125	2	20	
Lead	mg/L	0.000082J	0.1	0.1	0.097	0.10	97	100	75-125	3	20	
Lithium	mg/L	0.0060J	0.1	0.1	0.11	0.11	101	101	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	2	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 AP-234

Pace Project No.: 92496941

QC Batch: 570088 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941020, 92496941021, 92496941022, 92496941023, 92496941024

METHOD BLANK: 3020035 Matrix: Water
 Associated Lab Samples: 92496941020, 92496941021, 92496941022, 92496941023, 92496941024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/01/20 21:10	
Arsenic	mg/L	ND	0.0050	0.00078	10/01/20 21:10	
Barium	mg/L	ND	0.010	0.00071	10/01/20 21:10	
Beryllium	mg/L	ND	0.0030	0.000046	10/01/20 21:10	
Boron	mg/L	ND	0.10	0.0052	10/01/20 21:10	
Cadmium	mg/L	ND	0.0025	0.00012	10/01/20 21:10	
Chromium	mg/L	ND	0.010	0.00055	10/01/20 21:10	
Cobalt	mg/L	ND	0.0050	0.00038	10/01/20 21:10	
Lead	mg/L	ND	0.0050	0.000036	10/01/20 21:10	
Lithium	mg/L	ND	0.030	0.00081	10/01/20 21:10	
Molybdenum	mg/L	ND	0.010	0.00069	10/01/20 21:10	
Selenium	mg/L	ND	0.010	0.0016	10/01/20 21:10	
Thallium	mg/L	ND	0.0010	0.00014	10/01/20 21:10	

LABORATORY CONTROL SAMPLE: 3020036

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	0.099	99	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	104	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	0.10	104	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020037 3020038

Parameter	Units	92496524010 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	0.098	0.10	98	102	75-125	4	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	97	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameter	Units	3020037		3020038		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92496524010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.036	0.1	0.1	0.14	0.14	102	104	75-125	2	20		
Beryllium	mg/L	0.00088J	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Boron	mg/L	2.2	1	1	3.3	3.3	108	107	75-125	0	20		
Cadmium	mg/L	0.00076J	0.1	0.1	0.094	0.096	93	95	75-125	2	20		
Chromium	mg/L	0.00081J	0.1	0.1	0.096	0.099	96	98	75-125	3	20		
Cobalt	mg/L	0.0019J	0.1	0.1	0.096	0.099	94	97	75-125	3	20		
Lead	mg/L	0.00028J	0.1	0.1	0.095	0.098	95	97	75-125	2	20		
Lithium	mg/L	0.0017J	0.1	0.1	0.093	0.095	92	93	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.094	0.097	94	96	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.10	95	102	75-125	7	20		
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	98	100	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

QC Batch:	570089	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92496941025, 92496941026

METHOD BLANK: 3020046 Matrix: Water

Associated Lab Samples: 92496941025, 92496941026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/03/20 17:40	
Arsenic	mg/L	ND	0.0050	0.00078	10/03/20 17:40	
Barium	mg/L	ND	0.010	0.00071	10/03/20 17:40	
Beryllium	mg/L	ND	0.0030	0.000046	10/03/20 17:40	
Boron	mg/L	ND	0.10	0.0052	10/03/20 17:40	
Cadmium	mg/L	ND	0.0025	0.00012	10/03/20 17:40	
Chromium	mg/L	ND	0.010	0.00055	10/03/20 17:40	
Cobalt	mg/L	ND	0.0050	0.00038	10/03/20 17:40	
Lead	mg/L	ND	0.0050	0.000036	10/03/20 17:40	
Lithium	mg/L	ND	0.030	0.00081	10/03/20 17:40	
Molybdenum	mg/L	ND	0.010	0.00069	10/03/20 17:40	
Selenium	mg/L	ND	0.010	0.0016	10/03/20 17:40	
Thallium	mg/L	ND	0.0010	0.00014	10/03/20 17:40	

LABORATORY CONTROL SAMPLE: 3020047

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	0.092	92	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020048 3020049

Parameter	Units	92496941025 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.095	0.10	95	100	75-125	6	20	
Arsenic	mg/L	0.00088J	0.1	0.1	0.095	0.095	94	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020048		3020049		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92496941025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.032	0.1	0.1	0.13	0.13	95	98	75-125	3	20		
Beryllium	mg/L	0.00070J	0.1	0.1	0.099	0.097	98	97	75-125	1	20		
Boron	mg/L	0.84	1	1	2.0	1.9	112	107	75-125	3	20		
Cadmium	mg/L	0.00028J	0.1	0.1	0.097	0.097	97	97	75-125	0	20		
Chromium	mg/L	0.0028J	0.1	0.1	0.10	0.10	100	100	75-125	1	20		
Cobalt	mg/L	0.027	0.1	0.1	0.13	0.13	99	98	75-125	1	20		
Lead	mg/L	0.00022J	0.1	0.1	0.087	0.094	86	93	75-125	8	20		
Lithium	mg/L	0.0012J	0.1	0.1	0.10	0.10	102	100	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20		
Selenium	mg/L	0.012	0.1	0.1	0.11	0.11	96	95	75-125	1	20		
Thallium	mg/L	0.00034J	0.1	0.1	0.093	0.094	93	94	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 569306 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941001, 92496941002, 92496941003, 92496941004, 92496941005, 92496941006, 92496941007, 92496941008, 92496941009, 92496941010, 92496941011, 92496941012, 92496941013, 92496941014, 92496941015, 92496941016, 92496941017, 92496941018, 92496941019

METHOD BLANK: 3016285 Matrix: Water
 Associated Lab Samples: 92496941001, 92496941002, 92496941003, 92496941004, 92496941005, 92496941006, 92496941007, 92496941008, 92496941009, 92496941010, 92496941011, 92496941012, 92496941013, 92496941014, 92496941015, 92496941016, 92496941017, 92496941018, 92496941019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	09/29/20 12:00	

LABORATORY CONTROL SAMPLE: 3016286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3016287 3016288

Parameter	Units	92496941001 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	0.0025	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 569684 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941020, 92496941021, 92496941022, 92496941023, 92496941024, 92496941025, 92496941026

METHOD BLANK: 3017929 Matrix: Water
 Associated Lab Samples: 92496941020, 92496941021, 92496941022, 92496941023, 92496941024, 92496941025, 92496941026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.000087J	0.00050	0.000078	09/30/20 13:06	

LABORATORY CONTROL SAMPLE: 3017930

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: 3017931 3017932

Parameter	Units	3017931		3017932		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.000081J	0.0025	0.0025	0.0026	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 568649	Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92496941001, 92496941002, 92496941003, 92496941004

METHOD BLANK: 3012742 Matrix: Water
 Associated Lab Samples: 92496941001, 92496941002, 92496941003, 92496941004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/24/20 10:30	

LABORATORY CONTROL SAMPLE: 3012743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	407	102	84-108	

SAMPLE DUPLICATE: 3012744

Parameter	Units	92496914002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	107	113	5	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 569144 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941005, 92496941006, 92496941007, 92496941008, 92496941009, 92496941010, 92496941011

METHOD BLANK: 3015749 Matrix: Water
 Associated Lab Samples: 92496941005, 92496941006, 92496941007, 92496941008, 92496941009, 92496941010, 92496941011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/25/20 21:57	

LABORATORY CONTROL SAMPLE: 3015750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	84-108	

SAMPLE DUPLICATE: 3015751

Parameter	Units	92496941005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	338	338	0	10	

SAMPLE DUPLICATE: 3015752

Parameter	Units	92497141005 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-234
 Pace Project No.: 92496941

QC Batch: 569350 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941012, 92496941013, 92496941014, 92496941015, 92496941016, 92496941017, 92496941018

METHOD BLANK: 3016719 Matrix: Water
 Associated Lab Samples: 92496941012, 92496941013, 92496941014, 92496941015, 92496941016, 92496941017, 92496941018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/28/20 11:53	

LABORATORY CONTROL SAMPLE: 3016720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	427	107	84-108	

SAMPLE DUPLICATE: 3016721

Parameter	Units	92496925001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	215	218	1	10	

SAMPLE DUPLICATE: 3016722

Parameter	Units	92495900024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	894	864	3	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 569386 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941019

METHOD BLANK: 3016890 Matrix: Water
 Associated Lab Samples: 92496941019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/28/20 14:18	

LABORATORY CONTROL SAMPLE: 3016891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	429	107	84-108	

SAMPLE DUPLICATE: 3016892

Parameter	Units	92497125001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	260	295	13	10	D6

SAMPLE DUPLICATE: 3016893

Parameter	Units	92497141008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	59.0	31	10	D6

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 569806 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941021, 92496941022, 92496941023, 92496941024, 92496941025, 92496941026

METHOD BLANK: 3018686 Matrix: Water
 Associated Lab Samples: 92496941021, 92496941022, 92496941023, 92496941024, 92496941025, 92496941026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/29/20 18:54	

LABORATORY CONTROL SAMPLE: 3018687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	402	100	84-108	

SAMPLE DUPLICATE: 3018688

Parameter	Units	92497721002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	386	353	9	10	

SAMPLE DUPLICATE: 3018689

Parameter	Units	92497141012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	69.0	74.0	7	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 569874 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92496941020

METHOD BLANK: 3018862 Matrix: Water
 Associated Lab Samples: 92496941020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/30/20 09:26	

LABORATORY CONTROL SAMPLE: 3018863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	84-108	

SAMPLE DUPLICATE: 3018864

Parameter	Units	92497404001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	130	150	14	10	D6

SAMPLE DUPLICATE: 3018865

Parameter	Units	92495894026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	790	774	2	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

QC Batch:	569206	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:	92496941001, 92496941002, 92496941003, 92496941004, 92496941005, 92496941006, 92496941007, 92496941008, 92496941009, 92496941010, 92496941011		

METHOD BLANK:	3015927	Matrix:	Water
Associated Lab Samples:	92496941001, 92496941002, 92496941003, 92496941004, 92496941005, 92496941006, 92496941007, 92496941008, 92496941009, 92496941010, 92496941011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/27/20 02:07	
Fluoride	mg/L	ND	0.10	0.050	09/27/20 02:07	
Sulfate	mg/L	ND	1.0	0.50	09/27/20 02:07	

LABORATORY CONTROL SAMPLE:	3015928					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.4	107	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3015931	3015932										
Parameter	Units	92496941006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	57.3	57.2	108	108	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	99	99	90-110	0	10	
Sulfate	mg/L	40.2	50	50	93.6	93.5	107	106	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3015973	3015974										
Parameter	Units	92496940001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	50	50	64.7	63.0	126	123	90-110	3	10	M1
Fluoride	mg/L	0.099J	2.5	2.5	3.3	3.2	130	126	90-110	3	10	M1
Sulfate	mg/L	13.5	50	50	78.6	76.7	130	126	90-110	2	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

QC Batch:	569514	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: 92496941012, 92496941013, 92496941014, 92496941015, 92496941016, 92496941017, 92496941018, 92496941019

METHOD BLANK:	3017398	Matrix:	Water
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Associated Lab Samples: 92496941012, 92496941013, 92496941014, 92496941015, 92496941016, 92496941017, 92496941018, 92496941019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/29/20 11:26	
Fluoride	mg/L	ND	0.10	0.050	09/29/20 11:26	
Sulfate	mg/L	ND	1.0	0.50	09/29/20 11:26	

LABORATORY CONTROL SAMPLE: 3017399						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.9	108	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017400												3017401	
Parameter	Units	92496941018 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Chloride	mg/L	ND	50	50	52.4	51.8	105	104	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	93	94	90-110	0	10		
Sulfate	mg/L	ND	50	50	51.0	50.1	101	100	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017402												3017403	
Parameter	Units	92496941019 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Chloride	mg/L	ND	50	50	51.7	51.7	103	103	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	91	95	90-110	5	10		
Sulfate	mg/L	ND	50	50	50.0	49.9	100	100	90-110	0	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

QC Batch: 569577 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: 92496941020, 92496941021, 92496941022, 92496941023

METHOD BLANK: 3017567 Matrix: Water
 Associated Lab Samples: 92496941020, 92496941021, 92496941022, 92496941023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/29/20 17:37	
Fluoride	mg/L	ND	0.10	0.050	09/29/20 17:37	
Sulfate	mg/L	ND	1.0	0.50	09/29/20 17:37	

LABORATORY CONTROL SAMPLE: 3017568

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	2.7	109	90-110	
Sulfate	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017569 3017570

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92496524012	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	8.9	50	50	59.8	60.2	102	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.2	2.5	89	99	90-110	10	10	M1	
Sulfate	mg/L	298	50	50	347	351	98	106	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017571 3017572

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497532021	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	449	50	50	491	491	85	84	90-110	0	10	M6	
Fluoride	mg/L	0.097J	2.5	2.5	2.6	2.6	100	101	90-110	2	10		
Sulfate	mg/L	393	50	50	441	441	97	98	90-110	0	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

QC Batch: 569831 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: 92496941024, 92496941025, 92496941026

METHOD BLANK: 3018763 Matrix: Water
 Associated Lab Samples: 92496941024, 92496941025, 92496941026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/30/20 10:50	
Fluoride	mg/L	ND	0.10	0.050	09/30/20 10:50	
Sulfate	mg/L	ND	1.0	0.50	09/30/20 10:50	

LABORATORY CONTROL SAMPLE: 3018764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.8	108	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	50	53.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018765 3018766

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92496574018 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	ND	50	50	52.4	52.1	105	104	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	105	104	90-110	1	10		
Sulfate	mg/L	ND	50	50	52.1	51.8	104	104	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018767 3018768

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92496941026 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	ND	50	50	52.0	51.8	104	104	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	104	90-110	0	10		
Sulfate	mg/L	ND	50	50	51.7	51.4	103	103	90-110	0	10		

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QUALIFIERS

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92496941001	DGWC-4				
92496941002	DGWC-5				
92496941003	DGWC-9				
92496941004	DGWC-11				
92496941005	DGWC-12				
92496941006	DGWC-14				
92496941007	DGWC-19				
92496941008	DGWC-20				
92496941009	DGWC-42				
92496941012	DGWC-2				
92496941013	DGWC-8				
92496941014	DGWC-13				
92496941015	DGWC-15				
92496941016	DGWC-47				
92496941017	DGWC-48				
92496941020	DGWC-10				
92496941021	DGWC-17				
92496941022	DGWC-21				
92496941023	DGWC-22				
92496941024	DGWC-23				
92496941001	DGWC-4	EPA 3010A	568748	EPA 6010D	568812
92496941002	DGWC-5	EPA 3010A	568748	EPA 6010D	568812
92496941003	DGWC-9	EPA 3010A	569036	EPA 6010D	569131
92496941004	DGWC-11	EPA 3010A	569036	EPA 6010D	569131
92496941005	DGWC-12	EPA 3010A	569036	EPA 6010D	569131
92496941006	DGWC-14	EPA 3010A	569036	EPA 6010D	569131
92496941007	DGWC-19	EPA 3010A	569036	EPA 6010D	569131
92496941008	DGWC-20	EPA 3010A	569036	EPA 6010D	569131
92496941009	DGWC-42	EPA 3010A	569036	EPA 6010D	569131
92496941010	FB-1	EPA 3010A	569036	EPA 6010D	569131
92496941011	FD-1	EPA 3010A	569036	EPA 6010D	569131
92496941012	DGWC-2	EPA 3010A	569672	EPA 6010D	569722
92496941013	DGWC-8	EPA 3010A	569672	EPA 6010D	569722
92496941014	DGWC-13	EPA 3010A	569672	EPA 6010D	569722
92496941015	DGWC-15	EPA 3010A	569672	EPA 6010D	569722
92496941016	DGWC-47	EPA 3010A	569672	EPA 6010D	569722
92496941017	DGWC-48	EPA 3010A	569672	EPA 6010D	569722
92496941018	EB-2	EPA 3010A	569672	EPA 6010D	569722
92496941019	FB-2	EPA 3010A	569776	EPA 6010D	569815
92496941020	DGWC-10	EPA 3010A	570008	EPA 6010D	570053
92496941021	DGWC-17	EPA 3010A	570008	EPA 6010D	570053
92496941022	DGWC-21	EPA 3010A	570008	EPA 6010D	570053
92496941023	DGWC-22	EPA 3010A	570008	EPA 6010D	570053
92496941024	DGWC-23	EPA 3010A	570008	EPA 6010D	570053
92496941025	FD-3	EPA 3010A	570008	EPA 6010D	570053
92496941026	EB-3	EPA 3010A	570008	EPA 6010D	570053

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92496941001	DGWC-4	EPA 3005A	569670	EPA 6020B	569718
92496941002	DGWC-5	EPA 3005A	569670	EPA 6020B	569718
92496941003	DGWC-9	EPA 3005A	569670	EPA 6020B	569718
92496941004	DGWC-11	EPA 3005A	569670	EPA 6020B	569718
92496941005	DGWC-12	EPA 3005A	569772	EPA 6020B	569809
92496941006	DGWC-14	EPA 3005A	569772	EPA 6020B	569809
92496941007	DGWC-19	EPA 3005A	569772	EPA 6020B	569809
92496941008	DGWC-20	EPA 3005A	569772	EPA 6020B	569809
92496941009	DGWC-42	EPA 3005A	569772	EPA 6020B	569809
92496941010	FB-1	EPA 3005A	569772	EPA 6020B	569809
92496941011	FD-1	EPA 3005A	569772	EPA 6020B	569809
92496941012	DGWC-2	EPA 3005A	569774	EPA 6020B	569814
92496941013	DGWC-8	EPA 3005A	569774	EPA 6020B	569814
92496941014	DGWC-13	EPA 3005A	569774	EPA 6020B	569814
92496941015	DGWC-15	EPA 3005A	570000	EPA 6020B	570049
92496941016	DGWC-47	EPA 3005A	570000	EPA 6020B	570049
92496941017	DGWC-48	EPA 3005A	570000	EPA 6020B	570049
92496941018	EB-2	EPA 3005A	570000	EPA 6020B	570049
92496941019	FB-2	EPA 3005A	570000	EPA 6020B	570049
92496941020	DGWC-10	EPA 3005A	570088	EPA 6020B	570109
92496941021	DGWC-17	EPA 3005A	570088	EPA 6020B	570109
92496941022	DGWC-21	EPA 3005A	570088	EPA 6020B	570109
92496941023	DGWC-22	EPA 3005A	570088	EPA 6020B	570109
92496941024	DGWC-23	EPA 3005A	570088	EPA 6020B	570109
92496941025	FD-3	EPA 3005A	570089	EPA 6020B	570110
92496941026	EB-3	EPA 3005A	570089	EPA 6020B	570110
92496941001	DGWC-4	EPA 7470A	569306	EPA 7470A	569459
92496941002	DGWC-5	EPA 7470A	569306	EPA 7470A	569459
92496941003	DGWC-9	EPA 7470A	569306	EPA 7470A	569459
92496941004	DGWC-11	EPA 7470A	569306	EPA 7470A	569459
92496941005	DGWC-12	EPA 7470A	569306	EPA 7470A	569459
92496941006	DGWC-14	EPA 7470A	569306	EPA 7470A	569459
92496941007	DGWC-19	EPA 7470A	569306	EPA 7470A	569459
92496941008	DGWC-20	EPA 7470A	569306	EPA 7470A	569459
92496941009	DGWC-42	EPA 7470A	569306	EPA 7470A	569459
92496941010	FB-1	EPA 7470A	569306	EPA 7470A	569459
92496941011	FD-1	EPA 7470A	569306	EPA 7470A	569459
92496941012	DGWC-2	EPA 7470A	569306	EPA 7470A	569459
92496941013	DGWC-8	EPA 7470A	569306	EPA 7470A	569459
92496941014	DGWC-13	EPA 7470A	569306	EPA 7470A	569459
92496941015	DGWC-15	EPA 7470A	569306	EPA 7470A	569459
92496941016	DGWC-47	EPA 7470A	569306	EPA 7470A	569459
92496941017	DGWC-48	EPA 7470A	569306	EPA 7470A	569459
92496941018	EB-2	EPA 7470A	569306	EPA 7470A	569459
92496941019	FB-2	EPA 7470A	569306	EPA 7470A	569459

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234
 Pace Project No.: 92496941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92496941020	DGWC-10	EPA 7470A	569684	EPA 7470A	569888
92496941021	DGWC-17	EPA 7470A	569684	EPA 7470A	569888
92496941022	DGWC-21	EPA 7470A	569684	EPA 7470A	569888
92496941023	DGWC-22	EPA 7470A	569684	EPA 7470A	569888
92496941024	DGWC-23	EPA 7470A	569684	EPA 7470A	569888
92496941025	FD-3	EPA 7470A	569684	EPA 7470A	569888
92496941026	EB-3	EPA 7470A	569684	EPA 7470A	569888
92496941001	DGWC-4	SM 2450C-2011	568649		
92496941002	DGWC-5	SM 2450C-2011	568649		
92496941003	DGWC-9	SM 2450C-2011	568649		
92496941004	DGWC-11	SM 2450C-2011	568649		
92496941005	DGWC-12	SM 2450C-2011	569144		
92496941006	DGWC-14	SM 2450C-2011	569144		
92496941007	DGWC-19	SM 2450C-2011	569144		
92496941008	DGWC-20	SM 2450C-2011	569144		
92496941009	DGWC-42	SM 2450C-2011	569144		
92496941010	FB-1	SM 2450C-2011	569144		
92496941011	FD-1	SM 2450C-2011	569144		
92496941012	DGWC-2	SM 2450C-2011	569350		
92496941013	DGWC-8	SM 2450C-2011	569350		
92496941014	DGWC-13	SM 2450C-2011	569350		
92496941015	DGWC-15	SM 2450C-2011	569350		
92496941016	DGWC-47	SM 2450C-2011	569350		
92496941017	DGWC-48	SM 2450C-2011	569350		
92496941018	EB-2	SM 2450C-2011	569350		
92496941019	FB-2	SM 2450C-2011	569386		
92496941020	DGWC-10	SM 2450C-2011	569874		
92496941021	DGWC-17	SM 2450C-2011	569806		
92496941022	DGWC-21	SM 2450C-2011	569806		
92496941023	DGWC-22	SM 2450C-2011	569806		
92496941024	DGWC-23	SM 2450C-2011	569806		
92496941025	FD-3	SM 2450C-2011	569806		
92496941026	EB-3	SM 2450C-2011	569806		
92496941001	DGWC-4	EPA 300.0 Rev 2.1 1993	569206		
92496941002	DGWC-5	EPA 300.0 Rev 2.1 1993	569206		
92496941003	DGWC-9	EPA 300.0 Rev 2.1 1993	569206		
92496941004	DGWC-11	EPA 300.0 Rev 2.1 1993	569206		
92496941005	DGWC-12	EPA 300.0 Rev 2.1 1993	569206		
92496941006	DGWC-14	EPA 300.0 Rev 2.1 1993	569206		
92496941007	DGWC-19	EPA 300.0 Rev 2.1 1993	569206		
92496941008	DGWC-20	EPA 300.0 Rev 2.1 1993	569206		
92496941009	DGWC-42	EPA 300.0 Rev 2.1 1993	569206		
92496941010	FB-1	EPA 300.0 Rev 2.1 1993	569206		
92496941011	FD-1	EPA 300.0 Rev 2.1 1993	569206		
92496941012	DGWC-2	EPA 300.0 Rev 2.1 1993	569514		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234

Pace Project No.: 92496941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92496941013	DGWC-8	EPA 300.0 Rev 2.1 1993	569514		
92496941014	DGWC-13	EPA 300.0 Rev 2.1 1993	569514		
92496941015	DGWC-15	EPA 300.0 Rev 2.1 1993	569514		
92496941016	DGWC-47	EPA 300.0 Rev 2.1 1993	569514		
92496941017	DGWC-48	EPA 300.0 Rev 2.1 1993	569514		
92496941018	EB-2	EPA 300.0 Rev 2.1 1993	569514		
92496941019	FB-2	EPA 300.0 Rev 2.1 1993	569514		
92496941020	DGWC-10	EPA 300.0 Rev 2.1 1993	569577		
92496941021	DGWC-17	EPA 300.0 Rev 2.1 1993	569577		
92496941022	DGWC-21	EPA 300.0 Rev 2.1 1993	569577		
92496941023	DGWC-22	EPA 300.0 Rev 2.1 1993	569577		
92496941024	DGWC-23	EPA 300.0 Rev 2.1 1993	569831		
92496941025	FD-3	EPA 300.0 Rev 2.1 1993	569831		
92496941026	EB-3	EPA 300.0 Rev 2.1 1993	569831		

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Sample Condition Upon Receipt

Client Name: GA Power - Coal Cont

WO#: 92496941



92496941

Courier: Fed Ex UPS USPS Client Commercial Pace Other
Tracking #: _____

Prog. Name: _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other Ziploc

Thermometer Used 230

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 3.5

Biological Tissue is Present: yes no

Date and initials of person examining contents: CO

Temp should be above freezing to 6°C

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Wash Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>WT</u>	
All containers needing preservation have been checked:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, sulfon, TOC, O&G, W/O&G (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>CO</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>5mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Field Data Required? Y / N

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____

Date: _____

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

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a critical document, and relevant boxes must be completed accurately.

Page: 1 of 1

Section 1: Analytical Request Information

Requester: M. B. Smith Sample Location: Room 101, 10/25/10

Requester Title: Officer Date: 10/25/10

Requester Agency: San Diego Police Dept. Project Name: Project 101

Requester Phone: 619-594-1234 Requester Email: mbsmith@sdpolice.com

Requester Signature: [Signature] Requester Title: Officer

Section 2: Analytical Information

Sample ID: 101-101-101 Sample Location: Room 101

Sample Description: White Powder

Sample Quantity: 10g

Sample Matrix: Unknown

Sample History: Received from [Name]

SAMPLE ID
 One Sample per lot.
 Lot #, Vol., I.
 Sample ID must be unique.

Sample ID	Lot #	Vol.	I.	Section 3: Analytical Information						Sample Location	Sample History	
				Elemental Analysis	Organic Analysis	Microscopic Analysis	Microchemical Analysis	Microspectroscopy	Microspectrometry			
101-101-101	1	10	10	1	1	1	1	1	1	1	101-101-101	Received from [Name]
101-101-102	1	10	10	1	1	1	1	1	1	1	101-101-102	Received from [Name]
101-101-103	1	10	10	1	1	1	1	1	1	1	101-101-103	Received from [Name]
101-101-104	1	10	10	1	1	1	1	1	1	1	101-101-104	Received from [Name]
101-101-105	1	10	10	1	1	1	1	1	1	1	101-101-105	Received from [Name]
101-101-106	1	10	10	1	1	1	1	1	1	1	101-101-106	Received from [Name]
101-101-107	1	10	10	1	1	1	1	1	1	1	101-101-107	Received from [Name]
101-101-108	1	10	10	1	1	1	1	1	1	1	101-101-108	Received from [Name]
101-101-109	1	10	10	1	1	1	1	1	1	1	101-101-109	Received from [Name]
101-101-110	1	10	10	1	1	1	1	1	1	1	101-101-110	Received from [Name]
101-101-111	1	10	10	1	1	1	1	1	1	1	101-101-111	Received from [Name]
101-101-112	1	10	10	1	1	1	1	1	1	1	101-101-112	Received from [Name]
101-101-113	1	10	10	1	1	1	1	1	1	1	101-101-113	Received from [Name]
101-101-114	1	10	10	1	1	1	1	1	1	1	101-101-114	Received from [Name]
101-101-115	1	10	10	1	1	1	1	1	1	1	101-101-115	Received from [Name]

Requested by: Chris Towell Date: 10/25/10

Requested by Title: [Signature] Date: 10/25/10



October 20, 2020

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

RE: Project: MCDONOUGH AP-234 RADS
Pace Project No.: 92496904

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 23, 2020 and September 25, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-234 RADS
Pace Project No.: 92496904

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 AP-234 RADS
Pace Project No.: 92496904

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92496904001	DGWC-4	Water	09/22/20 09:50	09/23/20 09:35
92496904002	DGWC-5	Water	09/22/20 11:10	09/23/20 09:35
92496904003	DGWC-9	Water	09/22/20 10:00	09/23/20 09:35
92496904004	DGWC-11	Water	09/22/20 11:00	09/23/20 09:35
92496904005	DGWC-12	Water	09/22/20 15:40	09/23/20 09:35
92496904006	DGWC-14	Water	09/22/20 14:25	09/23/20 09:35
92496904007	DGWC-19	Water	09/22/20 16:10	09/23/20 09:35
92496904008	DGWC-20	Water	09/22/20 12:35	09/23/20 09:35
92496904009	DGWC-42	Water	09/22/20 16:25	09/23/20 09:35
92496904010	FB-1	Water	09/22/20 09:50	09/23/20 09:35
92496904011	FD-1	Water	09/22/20 00:00	09/23/20 09:35
92496904012	DGWC-2	Water	09/23/20 12:35	09/24/20 09:25
92496904013	DGWC-8	Water	09/23/20 16:00	09/24/20 09:25
92496904014	DGWC-13	Water	09/23/20 10:30	09/24/20 09:25
92496904015	DGWC-15	Water	09/23/20 13:55	09/24/20 09:25
92496904016	DGWC-47	Water	09/23/20 12:37	09/24/20 09:25
92496904017	DGWC-48	Water	09/23/20 09:55	09/24/20 09:25
92496904018	EB-2	Water	09/23/20 14:25	09/24/20 09:25
92496904019	FB-2	Water	09/23/20 10:22	09/24/20 09:25
92496904020	DGWC-10	Water	09/24/20 09:55	09/25/20 13:30
92496904021	DGWC-17	Water	09/24/20 14:05	09/25/20 13:30
92496904022	DGWC-21	Water	09/24/20 12:30	09/25/20 13:30
92496904023	DGWC-22	Water	09/24/20 12:20	09/25/20 13:30
92496904024	DGWC-23	Water	09/24/20 13:02	09/25/20 13:30
92496904025	FD-3	Water	09/24/20 00:00	09/25/20 13:30
92496904026	EB-3	Water	09/24/20 12:25	09/25/20 13:30

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92496904001	DGWC-4	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496904002	DGWC-5	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496904003	DGWC-9	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496904004	DGWC-11	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496904005	DGWC-12	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496904006	DGWC-14	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496904007	DGWC-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496904008	DGWC-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92496904009	DGWC-42	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92496904010	FB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92496904011	FD-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92496904012	DGWC-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92496904013	DGWC-8	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92496904014	DGWC-13	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904015	DGWC-15	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904016	DGWC-47	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904017	DGWC-48	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904018	EB-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904019	FB-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904020	DGWC-10	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904021	DGWC-17	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904022	DGWC-21	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904023	DGWC-22	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904024	DGWC-23	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92496904025	FD-3	EPA 9320	VAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234 RADS
Pace Project No.: 92496904

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92496904026	EB-3	Total Radium Calculation	JAL	1	PASI-PA
		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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Sample: DGWC-4 **Lab ID: 92496904001** Collected: 09/22/20 09:50 Received: 09/23/20 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	0.536 ± 0.304 (0.431) C:89% T:NA	pCi/L	10/08/20 07:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.890 ± 0.747 (1.51) C:63% T:73%	pCi/L	10/12/20 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.43 ± 1.05 (1.94)	pCi/L	10/14/20 09:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-5 Lab ID: 92496904002 Collected: 09/22/20 11:10 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.561 ± 0.350 (0.575) C:82% T:NA	pCi/L	10/08/20 07:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.841 ± 0.689 (1.38) C:63% T:81%	pCi/L	10/12/20 14:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.40 ± 1.04 (1.96)	pCi/L	10/14/20 09:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-9 Lab ID: 92496904003 Collected: 09/22/20 10:00 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.326 ± 0.287 (0.526) C:77% T:NA	pCi/L	10/08/20 07:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.823 ± 0.490 (0.898) C:62% T:79%	pCi/L	10/12/20 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 0.777 (1.42)	pCi/L	10/14/20 09:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-11 Lab ID: 92496904004 Collected: 09/22/20 11:00 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.145 ± 0.221 (0.480) C:72% T:NA	pCi/L	10/08/20 07:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.357 ± 0.547 (1.18) C:59% T:66%	pCi/L	10/12/20 12:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.502 ± 0.768 (1.66)	pCi/L	10/14/20 09:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Sample: DGWC-12 **Lab ID: 92496904005** Collected: 09/22/20 15:40 Received: 09/23/20 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	-0.0641 ± 0.191 (0.586) C:68% T:NA	pCi/L	10/08/20 07:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.515 ± 0.558 (1.16) C:61% T:57%	pCi/L	10/12/20 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.515 ± 0.749 (1.75)	pCi/L	10/14/20 09:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.283 ± 0.249 (0.445) C:79% T:NA	pCi/L	10/08/20 07:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.914 ± 0.525 (0.948) C:58% T:77%	pCi/L	10/12/20 11:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.20 ± 0.774 (1.39)	pCi/L	10/14/20 09:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-19 Lab ID: 92496904007 Collected: 09/22/20 16:10 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.480 ± 0.284 (0.410) C:88% T:NA	pCi/L	10/08/20 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.480 ± 0.496 (1.02) C:56% T:72%	pCi/L	10/12/20 11:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.960 ± 0.780 (1.43)	pCi/L	10/14/20 09:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-20 Lab ID: 92496904008 Collected: 09/22/20 12:35 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.600 ± 0.334 (0.461) C:78% T:NA	pCi/L	10/08/20 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.01 ± 0.689 (1.33) C:51% T:74%	pCi/L	10/12/20 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.61 ± 1.02 (1.79)	pCi/L	10/14/20 09:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-42 Lab ID: 92496904009 Collected: 09/22/20 16:25 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.268 ± 0.234 (0.422) C:95% T:NA	pCi/L	10/08/20 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.758 ± 0.626 (1.27) C:64% T:77%	pCi/L	10/12/20 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03 ± 0.860 (1.69)	pCi/L	10/15/20 13:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-1 Lab ID: 92496904010 Collected: 09/22/20 09:50 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0986 ± 0.190 (0.436) C:80% T:NA	pCi/L	10/08/20 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.191 ± 0.514 (1.14) C:61% T:86%	pCi/L	10/12/20 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.290 ± 0.704 (1.58)	pCi/L	10/15/20 13:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FD-1 Lab ID: 92496904011 Collected: 09/22/20 00:00 Received: 09/23/20 09:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.179 ± 0.214 (0.436) C:84% T:NA	pCi/L	10/08/20 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.654 ± 0.570 (1.17) C:63% T:84%	pCi/L	10/12/20 11:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.833 ± 0.784 (1.61)	pCi/L	10/15/20 13:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Sample: DGWC-2 **Lab ID: 92496904012** Collected: 09/23/20 12:35 Received: 09/24/20 09:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.971 ± 0.451 (0.564) C:77% T:NA	pCi/L	10/09/20 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.988 ± 0.733 (1.43) C:69% T:77%	pCi/L	10/12/20 18:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.96 ± 1.18 (1.99)	pCi/L	10/15/20 13:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-8 Lab ID: 92496904013 Collected: 09/23/20 16:00 Received: 09/24/20 09:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.335 ± 0.253 (0.408) C:87% T:NA	pCi/L	10/09/20 08:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.465 ± 0.755 (1.64) C:68% T:72%	pCi/L	10/12/20 18:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.800 ± 1.01 (2.05)	pCi/L	10/15/20 13:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-13 Lab ID: 92496904014 Collected: 09/23/20 10:30 Received: 09/24/20 09:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.207 ± 0.289 (0.630) C:95% T:NA	pCi/L	10/09/20 08:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.728 ± 0.904 (1.92) C:65% T:64%	pCi/L	10/12/20 18:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.935 ± 1.19 (2.55)	pCi/L	10/15/20 13:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-15 Lab ID: 92496904015 Collected: 09/23/20 13:55 Received: 09/24/20 09:25 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.408 ± 0.307 (0.497) C:74% T:NA	pCi/L	10/09/20 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.28 ± 0.781 (1.47) C:69% T:75%	pCi/L	10/12/20 18:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.69 ± 1.09 (1.97)	pCi/L	10/15/20 13:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-47 Lab ID: 92496904016 Collected: 09/23/20 12:37 Received: 09/24/20 09:25 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.961 ± 0.448 (0.593) C:78% T:NA	pCi/L	10/09/20 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.34 ± 0.988 (1.93) C:64% T:63%	pCi/L	10/12/20 19:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.30 ± 1.44 (2.52)	pCi/L	10/15/20 13:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.337 ± 0.275 (0.475) C:83% T:NA	pCi/L	10/09/20 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.17 ± 0.815 (1.57) C:61% T:83%	pCi/L	10/12/20 19:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.51 ± 1.09 (2.05)	pCi/L	10/16/20 12:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Sample: EB-2 **Lab ID: 92496904018** Collected: 09/23/20 14:25 Received: 09/24/20 09:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0454 ± 0.157 (0.403) C:92% T:NA	pCi/L	10/09/20 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.707 ± 0.751 (1.56) C:66% T:70%	pCi/L	10/12/20 19:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.752 ± 0.908 (1.96)	pCi/L	10/16/20 12:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Sample: FB-2 **Lab ID: 92496904019** Collected: 09/23/20 10:22 Received: 09/24/20 09:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.137 ± 0.192 (0.405) C:92% T:NA	pCi/L	10/09/20 09:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.820 ± 0.738 (1.48) C:58% T:77%	pCi/L	10/12/20 19:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.957 ± 0.930 (1.89)	pCi/L	10/16/20 12:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.317 ± 0.245 (0.398) C:83% T:NA	pCi/L	10/14/20 06:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.07 ± 0.547 (0.963) C:81% T:67%	pCi/L	10/15/20 11:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.39 ± 0.792 (1.36)	pCi/L	10/20/20 08:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.155 ± 0.278 (0.634) C:88% T:NA	pCi/L	10/14/20 06:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.214 ± 0.412 (0.905) C:78% T:72%	pCi/L	10/15/20 11:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.369 ± 0.690 (1.54)	pCi/L	10/20/20 08:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-21 Lab ID: 92496904022 Collected: 09/24/20 12:30 Received: 09/25/20 13:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.264 ± 0.244 (0.444) C:86% T:NA	pCi/L	10/14/20 06:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.132 ± 0.396 (0.888) C:81% T:76%	pCi/L	10/15/20 11:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.396 ± 0.640 (1.33)	pCi/L	10/20/20 08:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-22 Lab ID: 92496904023 Collected: 09/24/20 12:20 Received: 09/25/20 13:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.311 ± 0.259 (0.453) C:84% T:NA	pCi/L	10/14/20 06:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.709 ± 0.447 (0.841) C:78% T:72%	pCi/L	10/15/20 11:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.02 ± 0.706 (1.29)	pCi/L	10/20/20 08:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-23 Lab ID: 92496904024 Collected: 09/24/20 13:02 Received: 09/25/20 13:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.324 ± 0.251 (0.407) C:85% T:NA	pCi/L	10/14/20 06:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.17 ± 0.556 (0.972) C:71% T:83%	pCi/L	10/15/20 11:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.49 ± 0.807 (1.38)	pCi/L	10/20/20 08:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Sample: FD-3 **Lab ID: 92496904025** Collected: 09/24/20 00:00 Received: 09/25/20 13:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0450 ± 0.159 (0.404) C:85% T:NA	pCi/L	10/14/20 07:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.334 ± 0.437 (0.931) C:72% T:76%	pCi/L	10/15/20 11:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.379 ± 0.596 (1.34)	pCi/L	10/20/20 08:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

Sample: EB-3 **Lab ID: 92496904026** Collected: 09/24/20 12:25 Received: 09/25/20 13:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00480 ± 0.0871 (0.286) C:90% T:NA	pCi/L	10/14/20 06:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.635 ± 0.508 (1.02) C:79% T:71%	pCi/L	10/15/20 11:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.635 ± 0.595 (1.31)	pCi/L	10/20/20 08:55	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

QC Batch: 415890 Analysis Method: EPA 9315
 QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
 Laboratory: Pace Analytical Services - Greensburg
 Associated Lab Samples: 92496904012, 92496904013, 92496904014, 92496904015, 92496904016, 92496904017, 92496904018, 92496904019

METHOD BLANK: 2010987 Matrix: Water
 Associated Lab Samples: 92496904012, 92496904013, 92496904014, 92496904015, 92496904016, 92496904017, 92496904018, 92496904019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.214 ± 0.231 (0.446) C:86% T:NA	pCi/L	10/09/20 08:12	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS
 Pace Project No.: 92496904

QC Batch: 417134	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92496904020, 92496904021, 92496904022, 92496904023, 92496904024, 92496904025, 92496904026

METHOD BLANK: 2016817 Matrix: Water

Associated Lab Samples: 92496904020, 92496904021, 92496904022, 92496904023, 92496904024, 92496904025, 92496904026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.280 ± 0.239 (0.418) C:85% T:NA	pCi/L	10/14/20 06:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS
 Pace Project No.: 92496904

QC Batch:	415887	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92496904001, 92496904002, 92496904003, 92496904004, 92496904005, 92496904006, 92496904007, 92496904008, 92496904009, 92496904010, 92496904011

METHOD BLANK: 2010984 Matrix: Water

Associated Lab Samples: 92496904001, 92496904002, 92496904003, 92496904004, 92496904005, 92496904006, 92496904007, 92496904008, 92496904009, 92496904010, 92496904011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.452 ± 0.429 (0.882) C:72% T:83%	pCi/L	10/12/20 11:46	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

QC Batch: 415889

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92496904001, 92496904002, 92496904003, 92496904004, 92496904005, 92496904006, 92496904007, 92496904008, 92496904009, 92496904010, 92496904011

METHOD BLANK: 2010986

Matrix: Water

Associated Lab Samples: 92496904001, 92496904002, 92496904003, 92496904004, 92496904005, 92496904006, 92496904007, 92496904008, 92496904009, 92496904010, 92496904011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.196 ± 0.238 (0.495) C:89% T:NA	pCi/L	10/08/20 07:29	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92496904

QC Batch: 417135

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92496904020, 92496904021, 92496904022, 92496904023, 92496904024, 92496904025, 92496904026

METHOD BLANK: 2016818

Matrix: Water

Associated Lab Samples: 92496904020, 92496904021, 92496904022, 92496904023, 92496904024, 92496904025, 92496904026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.274 ± 0.291 (0.602) C:84% T:86%	pCi/L	10/15/20 11:05	

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-234 RADS

Pace Project No.: 92496904

QC Batch:	415888	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92496904012, 92496904013, 92496904014, 92496904015, 92496904016, 92496904017, 92496904018, 92496904019

METHOD BLANK: 2010985 Matrix: Water

Associated Lab Samples: 92496904012, 92496904013, 92496904014, 92496904015, 92496904016, 92496904017, 92496904018, 92496904019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.197 ± 0.376 (0.826) C:67% T:78%	pCi/L	10/12/20 14:59	

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-234 RADS

Pace Project No.: 92496904

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234 RADS
 Pace Project No.: 92496904

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92496904001	DGWC-4	EPA 9315	415889		
92496904002	DGWC-5	EPA 9315	415889		
92496904003	DGWC-9	EPA 9315	415889		
92496904004	DGWC-11	EPA 9315	415889		
92496904005	DGWC-12	EPA 9315	415889		
92496904006	DGWC-14	EPA 9315	415889		
92496904007	DGWC-19	EPA 9315	415889		
92496904008	DGWC-20	EPA 9315	415889		
92496904009	DGWC-42	EPA 9315	415889		
92496904010	FB-1	EPA 9315	415889		
92496904011	FD-1	EPA 9315	415889		
92496904012	DGWC-2	EPA 9315	415890		
92496904013	DGWC-8	EPA 9315	415890		
92496904014	DGWC-13	EPA 9315	415890		
92496904015	DGWC-15	EPA 9315	415890		
92496904016	DGWC-47	EPA 9315	415890		
92496904017	DGWC-48	EPA 9315	415890		
92496904018	EB-2	EPA 9315	415890		
92496904019	FB-2	EPA 9315	415890		
92496904020	DGWC-10	EPA 9315	417134		
92496904021	DGWC-17	EPA 9315	417134		
92496904022	DGWC-21	EPA 9315	417134		
92496904023	DGWC-22	EPA 9315	417134		
92496904024	DGWC-23	EPA 9315	417134		
92496904025	FD-3	EPA 9315	417134		
92496904026	EB-3	EPA 9315	417134		
92496904001	DGWC-4	EPA 9320	415887		
92496904002	DGWC-5	EPA 9320	415887		
92496904003	DGWC-9	EPA 9320	415887		
92496904004	DGWC-11	EPA 9320	415887		
92496904005	DGWC-12	EPA 9320	415887		
92496904006	DGWC-14	EPA 9320	415887		
92496904007	DGWC-19	EPA 9320	415887		
92496904008	DGWC-20	EPA 9320	415887		
92496904009	DGWC-42	EPA 9320	415887		
92496904010	FB-1	EPA 9320	415887		
92496904011	FD-1	EPA 9320	415887		
92496904012	DGWC-2	EPA 9320	415888		
92496904013	DGWC-8	EPA 9320	415888		
92496904014	DGWC-13	EPA 9320	415888		
92496904015	DGWC-15	EPA 9320	415888		
92496904016	DGWC-47	EPA 9320	415888		
92496904017	DGWC-48	EPA 9320	415888		
92496904018	EB-2	EPA 9320	415888		
92496904019	FB-2	EPA 9320	415888		
92496904020	DGWC-10	EPA 9320	417135		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234 RADS
 Pace Project No.: 92496904

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92496904021	DGWC-17	EPA 9320	417135		
92496904022	DGWC-21	EPA 9320	417135		
92496904023	DGWC-22	EPA 9320	417135		
92496904024	DGWC-23	EPA 9320	417135		
92496904025	FD-3	EPA 9320	417135		
92496904026	EB-3	EPA 9320	417135		
92496904001	DGWC-4	Total Radium Calculation	418331		
92496904002	DGWC-5	Total Radium Calculation	418331		
92496904003	DGWC-9	Total Radium Calculation	418331		
92496904004	DGWC-11	Total Radium Calculation	418331		
92496904005	DGWC-12	Total Radium Calculation	418331		
92496904006	DGWC-14	Total Radium Calculation	418331		
92496904007	DGWC-19	Total Radium Calculation	418331		
92496904008	DGWC-20	Total Radium Calculation	418331		
92496904009	DGWC-42	Total Radium Calculation	418746		
92496904010	FB-1	Total Radium Calculation	418746		
92496904011	FD-1	Total Radium Calculation	418746		
92496904012	DGWC-2	Total Radium Calculation	418746		
92496904013	DGWC-8	Total Radium Calculation	418746		
92496904014	DGWC-13	Total Radium Calculation	418746		
92496904015	DGWC-15	Total Radium Calculation	418746		
92496904016	DGWC-47	Total Radium Calculation	418746		
92496904017	DGWC-48	Total Radium Calculation	418910		
92496904018	EB-2	Total Radium Calculation	418910		
92496904019	FB-2	Total Radium Calculation	418910		
92496904020	DGWC-10	Total Radium Calculation	419262		
92496904021	DGWC-17	Total Radium Calculation	419262		
92496904022	DGWC-21	Total Radium Calculation	419262		
92496904023	DGWC-22	Total Radium Calculation	419262		
92496904024	DGWC-23	Total Radium Calculation	419262		
92496904025	FD-3	Total Radium Calculation	419262		
92496904026	EB-3	Total Radium Calculation	419262		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GA Power - Coal Co. WO#: 92496904



Carrier: Fed Ex UPS USPS Client Commercial Pace
Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no (Emp. Name: _____)

Packing Material: Bubble Wrap Bubble Bags None Other Ziplock

Thermometer Used 230 Type of Ice: White Blue None Samples on ice, cooling process has begun

Cooler Temperature 3.5 Biological Tissue is Frozen: Yes No Date and initials of person examining contents: CO

Temp should be above freezing to 6°C Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on CDC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match CDC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>WT</u>	
All containers needing preservation have been checked:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, sulfides, TOC, O&G, W-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>CO</u> Lot # of added preservative: _____
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

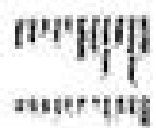
Project Manager Review: _____ Date: _____

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

Analytical Request Information Request Type: <u>Substance Abuse</u> Requester: <u>Police</u> Request Date: <u>07/15/2010</u> Requested By: <u>[Signature]</u>		Analytical Information Analytical Method: <u>GC/MS</u> Analytical Lab: <u>[Signature]</u> Analytical Date: <u>07/15/2010</u>	
Chain of Custody Chain of Custody: <u>[Signature]</u> Date: <u>07/15/2010</u>		Chain of Custody Chain of Custody: <u>[Signature]</u> Date: <u>07/15/2010</u>	

SAMPLE ID
 One Character per box.
 Letters and numbers
 length may not be more
 than 10 characters



Sample ID	Date	Time	Sample Type	Quantity	Packaging										Analysis Test	Remarks											
					Sealed	Original	Container	Material	Label	Manufacturer	Batch	Lot	Country	Other													
00001	07/15/2010	11:30	Urine	1																							
00002	07/15/2010	11:30	Urine	1																							
00003	07/15/2010	11:30	Urine	1																							
00004	07/15/2010	11:30	Urine	1																							
00005	07/15/2010	11:30	Urine	1																							
00006	07/15/2010	11:30	Urine	1																							
00007	07/15/2010	11:30	Urine	1																							
00008	07/15/2010	11:30	Urine	1																							
00009	07/15/2010	11:30	Urine	1																							
00010	07/15/2010	11:30	Urine	1																							
00011	07/15/2010	11:30	Urine	1																							
00012	07/15/2010	11:30	Urine	1																							
00013	07/15/2010	11:30	Urine	1																							
00014	07/15/2010	11:30	Urine	1																							
00015	07/15/2010	11:30	Urine	1																							
00016	07/15/2010	11:30	Urine	1																							
00017	07/15/2010	11:30	Urine	1																							
00018	07/15/2010	11:30	Urine	1																							
00019	07/15/2010	11:30	Urine	1																							
00020	07/15/2010	11:30	Urine	1																							
00021	07/15/2010	11:30	Urine	1																							

Request by: [Signature] 07/15/2010

Quality Control Sample Performance Assessment



How good is the quality of work done by you and your staff on the job?

Name	W. L. DAVIS
Agency	IL DOT
Date	12/1/2011
Location	IL DOT
Project	DOT

Project Name	IL DOT
Department	IL DOT
City/County/Town/Village	IL DOT
Project No.	IL DOT
Contract No./Agency Order No.	IL DOT
Job Order No./Purchase Order No.	IL DOT
Form Number (105)	IL DOT

1. How good is the quality of work done by you and your staff on the job? Very Poor Poor Fair Good Excellent	2. How good is the quality of work done by you and your staff on the job? Very Poor Poor Fair Good Excellent
---	---

1. How good is the quality of work done by you and your staff on the job? Very Poor Poor Fair Good Excellent	2. How good is the quality of work done by you and your staff on the job? Very Poor Poor Fair Good Excellent
---	---

1. How good is the quality of work done by you and your staff on the job? Very Poor Poor Fair Good Excellent	2. How good is the quality of work done by you and your staff on the job? Very Poor Poor Fair Good Excellent
---	---

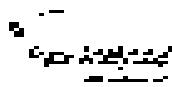
1. How good is the quality of work done by you and your staff on the job? Very Poor Poor Fair Good Excellent	2. How good is the quality of work done by you and your staff on the job? Very Poor Poor Fair Good Excellent
---	---

By the addition of length of the job, or the number of samples, or a number of samples, the quality of work done by you and your staff on the job is:

Very Poor

How good is the quality of work done by you and your staff on the job?

Very Poor



Quality Control Sample Performance Assessment

Sample Performance Data Analysis for 2014-2015

Item	Count	Percentage
Total Samples	100	100%
Compliant	85	85%
Non-Compliant	15	15%

Category	Count	Percentage
Sample 1	25	25%
Sample 2	20	20%
Sample 3	15	15%
Sample 4	10	10%
Sample 5	15	15%

Sample	Location	Inspector	Date	Result
1
2
3
4
5

Sample	Count	Percentage
Sample 1	25	25%
Sample 2	20	20%
Sample 3	15	15%
Sample 4	10	10%
Sample 5	15	15%

Sample	Count	Percentage
Sample 1	25	25%
Sample 2	20	20%
Sample 3	15	15%
Sample 4	10	10%
Sample 5	15	15%

All field reports, inspection reports, and quality control reports are submitted to the City of Dallas.

Continued



Quality Control Sample Performance Assessment

Rock Hill, SC
 29730

City
 Area
 County
 State

Sample ID	Sample Name	Sample Type
1
2
3
4
5
6
7
8
9
10

Sample ID	Sample Name	Sample Type
11
12
13
14
15
16
17
18
19
20

Sample ID	Sample Name	Sample Type
21
22
23
24
25
26
27
28
29
30

Sample Performance Report: [Sample Name]

Sample ID	Sample Name	Sample Type
31
32
33
34
35
36
37
38
39
40

Sample ID	Sample Name	Sample Type
41
42
43
44
45
46
47
48
49
50

All Department of Agriculture personnel are trained and certified in accordance with the following standards for sample collection and analysis:

Continued

2017-2018

Quality Control Sample Performance Assessment

Case # 102

Year: 2019
 Age of Case: 10/27/2019
 Type of Case: 2019
 Status: 10/27/2019

Assessment of Quality Control Performance for Reporting Period 10/27/2019

Category	Count	Percentage
Overall Quality Control	100	100%
- Correctly Identified	95	95%
- Incorrectly Identified	5	5%

Category	Count	Percentage
Overall Quality Control	100	100%
- Correctly Identified	95	95%
- Incorrectly Identified	5	5%

Category	Count	Percentage
Overall Quality Control	100	100%
- Correctly Identified	95	95%
- Incorrectly Identified	5	5%

Category	Count	Percentage
Overall Quality Control	100	100%
- Correctly Identified	95	95%
- Incorrectly Identified	5	5%

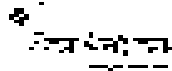
Category	Count	Percentage
Overall Quality Control	100	100%
- Correctly Identified	95	95%
- Incorrectly Identified	5	5%

All Quality Control samples were reviewed and found to be correct.

Signature:

[Handwritten Signature]

Quality Control Sample Performance Assessment



Date: 12/15/2010
 Page: 49 of 54
 User: [Name]
 Job: [Job]

Module Name	Pass/Fail
1. Sample ID	Pass
2. Labeling	Pass
3. Data Entry	Pass
4. QC	Pass
5. Sample Performance	Pass
6. Data Entry	Pass
7. QC	Pass

Sample Name	Pass/Fail	Pass/Fail
1. Sample ID	Pass	Pass
2. Labeling	Pass	Pass
3. Data Entry	Pass	Pass
4. QC	Pass	Pass
5. Sample Performance	Pass	Pass
6. Data Entry	Pass	Pass
7. QC	Pass	Pass
8. Sample ID	Pass	Pass
9. Labeling	Pass	Pass
10. Data Entry	Pass	Pass
11. QC	Pass	Pass
12. Sample Performance	Pass	Pass
13. Data Entry	Pass	Pass
14. QC	Pass	Pass

Sample Name	Pass/Fail	Pass/Fail
1. Sample ID	Pass	Pass
2. Labeling	Pass	Pass
3. Data Entry	Pass	Pass
4. QC	Pass	Pass
5. Sample Performance	Pass	Pass
6. Data Entry	Pass	Pass
7. QC	Pass	Pass
8. Sample ID	Pass	Pass
9. Labeling	Pass	Pass
10. Data Entry	Pass	Pass
11. QC	Pass	Pass
12. Sample Performance	Pass	Pass
13. Data Entry	Pass	Pass
14. QC	Pass	Pass

All elements of quality control are passed. There are no other quality control failures.

Comment:

Quality Control Sample Performance Assessment

Sample Name	Pass/Fail	Pass/Fail
1. Sample ID	Pass	Pass
2. Labeling	Pass	Pass
3. Data Entry	Pass	Pass
4. QC	Pass	Pass
5. Sample Performance	Pass	Pass
6. Data Entry	Pass	Pass
7. QC	Pass	Pass
8. Sample ID	Pass	Pass
9. Labeling	Pass	Pass
10. Data Entry	Pass	Pass
11. QC	Pass	Pass
12. Sample Performance	Pass	Pass
13. Data Entry	Pass	Pass
14. QC	Pass	Pass

Sample Name	Pass/Fail	Pass/Fail
1. Sample ID	Pass	Pass
2. Labeling	Pass	Pass
3. Data Entry	Pass	Pass
4. QC	Pass	Pass
5. Sample Performance	Pass	Pass
6. Data Entry	Pass	Pass
7. QC	Pass	Pass
8. Sample ID	Pass	Pass
9. Labeling	Pass	Pass
10. Data Entry	Pass	Pass
11. QC	Pass	Pass
12. Sample Performance	Pass	Pass
13. Data Entry	Pass	Pass
14. QC	Pass	Pass

12/15/2010

Signature

Quality Control Sample Performance Assessment

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 Page 50 of 54

Test
 Count
 Pass
 Percent
 Status

Test Name	Count	Pass	Status
Water Quality - Ammonia	1	1	100%
Water Quality - Chlorine	1	1	100%
Water Quality - Turbidity	1	1	100%
Water Quality - pH	1	1	100%
Water Quality - Total Dissolved Solids	1	1	100%
Water Quality - Total Suspended Solids	1	1	100%

Test Name	Count	Pass	Status
Water Quality - Ammonia	1	1	100%
Water Quality - Chlorine	1	1	100%
Water Quality - Turbidity	1	1	100%
Water Quality - pH	1	1	100%
Water Quality - Total Dissolved Solids	1	1	100%
Water Quality - Total Suspended Solids	1	1	100%
Water Quality - Conductivity	1	1	100%
Water Quality - Hardness	1	1	100%
Water Quality - Total Hardness	1	1	100%
Water Quality - Nitrate	1	1	100%
Water Quality - Nitrite	1	1	100%
Water Quality - Total Nitrogen	1	1	100%
Water Quality - Total Phosphorus	1	1	100%

Test Name	Count	Pass	Status
Water Quality - Ammonia	1	1	100%
Water Quality - Chlorine	1	1	100%
Water Quality - Turbidity	1	1	100%
Water Quality - pH	1	1	100%
Water Quality - Total Dissolved Solids	1	1	100%
Water Quality - Total Suspended Solids	1	1	100%
Water Quality - Conductivity	1	1	100%
Water Quality - Hardness	1	1	100%
Water Quality - Total Hardness	1	1	100%
Water Quality - Nitrate	1	1	100%
Water Quality - Nitrite	1	1	100%
Water Quality - Total Nitrogen	1	1	100%
Water Quality - Total Phosphorus	1	1	100%

Water Quality - Ammonia, Chlorine, Turbidity, pH, Total Dissolved Solids, Total Suspended Solids, Conductivity, Hardness, Total Hardness, Nitrate, Nitrite, Total Nitrogen, Total Phosphorus

Page 50 of 54

Water Quality - Ammonia, Chlorine, Turbidity, pH, Total Dissolved Solids, Total Suspended Solids, Conductivity, Hardness, Total Hardness, Nitrate, Nitrite, Total Nitrogen, Total Phosphorus

Test Name	Count	Pass	Status
Water Quality - Ammonia	1	1	100%
Water Quality - Chlorine	1	1	100%
Water Quality - Turbidity	1	1	100%
Water Quality - pH	1	1	100%
Water Quality - Total Dissolved Solids	1	1	100%
Water Quality - Total Suspended Solids	1	1	100%
Water Quality - Conductivity	1	1	100%
Water Quality - Hardness	1	1	100%
Water Quality - Total Hardness	1	1	100%
Water Quality - Nitrate	1	1	100%
Water Quality - Nitrite	1	1	100%
Water Quality - Total Nitrogen	1	1	100%
Water Quality - Total Phosphorus	1	1	100%

Test Name	Count	Pass	Status
Water Quality - Ammonia	1	1	100%
Water Quality - Chlorine	1	1	100%
Water Quality - Turbidity	1	1	100%
Water Quality - pH	1	1	100%
Water Quality - Total Dissolved Solids	1	1	100%
Water Quality - Total Suspended Solids	1	1	100%
Water Quality - Conductivity	1	1	100%
Water Quality - Hardness	1	1	100%
Water Quality - Total Hardness	1	1	100%
Water Quality - Nitrate	1	1	100%
Water Quality - Nitrite	1	1	100%
Water Quality - Total Nitrogen	1	1	100%
Water Quality - Total Phosphorus	1	1	100%

Water Quality - Ammonia, Chlorine, Turbidity, pH, Total Dissolved Solids, Total Suspended Solids, Conductivity, Hardness, Total Hardness, Nitrate, Nitrite, Total Nitrogen, Total Phosphorus

Checked by [Signature]

[Signature]



Quality Control Sample Performance Assessment

STATION NAME	TAKE NO	DATE	TIME	DEPTH (m)	ANALYSIS	UNIT	RESULT	STANDARD																																																																																																																																			
120000000 120000001 120000002 120000003 120000004 120000005 120000006 120000007 120000008 120000009	120000000	12/15/2016	09:30	0.5	PH		7.5	6.5-8.5																																																																																																																																			
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	120000002	12/15/2016	09:30	1.5	PH		7.5	6.5-8.5																																																																																																																																			
	120000003	12/15/2016	09:30	2.0	PH		7.5	6.5-8.5																																																																																																																																			
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	120000006	12/15/2016	09:30	3.5	PH		7.5	6.5-8.5																																																																																																																																			
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	120000008	12/15/2016	09:30	4.5	PH		7.5	6.5-8.5																																																																																																																																			
	120000009	12/15/2016	09:30	5.0	PH		7.5	6.5-8.5																																																																																																																																			
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All the results of this monitoring were evaluated and the results are available on the project website.

Checked
 Approved

12/15/2016

Ministry of Water Resources
 State of Palestine

Water Resources Engineering
 Department



Quality Control Sample Performance Assessment

Table 1. Quality Control Sample Performance Assessment

Year	Count	Percent	Count	Percent
2021	76	100%	76	100%
2022	10,300	100%	10,300	100%
2023	10,300	100%	10,300	100%
2024	10,300	100%	10,300	100%

Sample Type	Count	Percent
All Samples	10,300	100%
Water Quality	10,300	100%
Air Quality	10,300	100%
Soil Quality	10,300	100%
Other Quality	10,300	100%

Sample Type	Count	Percent
Water Quality	10,300	100%
Air Quality	10,300	100%
Soil Quality	10,300	100%
Other Quality	10,300	100%

Sample Type	Count	Percent
All Samples	10,300	100%
Water Quality	10,300	100%
Air Quality	10,300	100%
Soil Quality	10,300	100%
Other Quality	10,300	100%

■ All samples are analyzed in the laboratory. All samples are analyzed in the laboratory.

Legend

Water Quality

Air Quality

Soil Quality

Other Quality



October 09, 2020

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

RE: Project: MCDONOUGH ASSESSMENT
Pace Project No.: 92497125

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 24, 2020 and September 28, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92497125001	B-89	Water	09/23/20 15:30	09/24/20 09:25
92497125002	B-62	Water	09/24/20 10:18	09/25/20 13:30
92497125003	B-77	Water	09/24/20 14:19	09/25/20 13:30
92497125004	FB-3	Water	09/24/20 11:00	09/25/20 13:30
92497125005	B-74	Water	09/25/20 10:05	09/25/20 13:30
92497125006	B-83	Water	09/25/20 09:10	09/25/20 13:30
92497125007	B-88	Water	09/25/20 10:15	09/25/20 13:30
92497125008	B-100	Water	09/25/20 10:50	09/25/20 13:30
92497125009	B-56	Water	09/28/20 11:14	09/28/20 14:21
92497125010	B-82	Water	09/28/20 10:14	09/28/20 14:21
92497125011	B-93	Water	09/28/20 09:50	09/28/20 14:21

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92497125001	B-89	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497125002	B-62	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92497125003	B-77	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92497125004	FB-3	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92497125005	B-74	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92497125006	B-83	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92497125007	B-88	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92497125008	B-100	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92497125009	B-56	EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92497125010	B-82	SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92497125011	B-93	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3

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 ASSESSMENT

Pace Project No.: 92497125

Sample: B-89		Lab ID: 92497125001		Collected: 09/23/20 15:30		Received: 09/24/20 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	5.87	Std. Units			1		09/29/20 15:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	31.4	mg/L	1.0	0.070	1	09/29/20 14:17	09/29/20 21:06	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:39	10/01/20 11:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:39	10/01/20 11:46	7440-38-2	
Barium	0.028	mg/L	0.010	0.00071	1	09/29/20 18:39	10/01/20 11:46	7440-39-3	
Beryllium	0.000054J	mg/L	0.0030	0.000046	1	09/29/20 18:39	10/01/20 11:46	7440-41-7	
Boron	0.76	mg/L	0.10	0.0052	1	09/29/20 18:39	10/01/20 11:46	7440-42-8	
Cadmium	0.00057J	mg/L	0.0025	0.00012	1	09/29/20 18:39	10/01/20 11:46	7440-43-9	
Chromium	0.00072J	mg/L	0.010	0.00055	1	09/29/20 18:39	10/01/20 11:46	7440-47-3	
Cobalt	0.0025J	mg/L	0.0050	0.00038	1	09/29/20 18:39	10/01/20 11:46	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/29/20 18:39	10/01/20 11:46	7439-92-1	
Lithium	0.0055J	mg/L	0.030	0.00081	1	09/29/20 18:39	10/01/20 11:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/29/20 18:39	10/01/20 11:46	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 18:39	10/01/20 11:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:39	10/01/20 11:46	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000080J	mg/L	0.00050	0.000078	1	09/28/20 09:15	09/29/20 08:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	260	mg/L	10.0	10.0	1		09/28/20 14:18		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	9.1	mg/L	1.0	0.60	1		09/29/20 12:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/29/20 12:38	16984-48-8	
Sulfate	138	mg/L	2.0	1.0	2		09/29/20 20:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

Sample: B-62		Lab ID: 92497125002		Collected: 09/24/20 10:18		Received: 09/25/20 13:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/29/20 15:24		
pH	6.55	Std. Units			1		09/29/20 15:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	28.8	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:24	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00046J	mg/L	0.0030	0.00028	1	09/30/20 17:48	10/03/20 18:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 17:48	10/03/20 18:20	7440-38-2	
Barium	0.025	mg/L	0.010	0.00071	1	09/30/20 17:48	10/03/20 18:20	7440-39-3	
Beryllium	0.00013J	mg/L	0.0030	0.000046	1	09/30/20 17:48	10/03/20 18:20	7440-41-7	
Boron	0.074J	mg/L	0.10	0.0052	1	09/30/20 17:48	10/03/20 18:20	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 17:48	10/03/20 18:20	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 17:48	10/03/20 18:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 17:48	10/03/20 18:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 17:48	10/03/20 18:20	7439-92-1	
Lithium	0.0084J	mg/L	0.030	0.00081	1	09/30/20 17:48	10/03/20 18:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:48	10/03/20 18:20	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 17:48	10/03/20 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:48	10/03/20 18:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 12:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	170	mg/L	10.0	10.0	1		09/30/20 09:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.7	mg/L	1.0	0.60	1		09/30/20 20:53	16887-00-6	
Fluoride	0.093J	mg/L	0.10	0.050	1		09/30/20 20:53	16984-48-8	
Sulfate	50.6	mg/L	1.0	0.50	1		09/30/20 20:53	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

Sample: B-77 **Lab ID: 92497125003** Collected: 09/24/20 14:19 Received: 09/25/20 13:30 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		09/29/20 15:24		
pH	6.46	Std. Units			1		09/29/20 15:24		

6010D ATL ICP

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

Calcium	17.9	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:28	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	0.00036J	mg/L	0.0030	0.00028	1	09/30/20 17:48	10/03/20 18:25	7440-36-0	
Arsenic	0.0025J	mg/L	0.0050	0.00078	1	09/30/20 17:48	10/03/20 18:25	7440-38-2	
Barium	0.12	mg/L	0.010	0.00071	1	09/30/20 17:48	10/03/20 18:25	7440-39-3	
Beryllium	0.000053J	mg/L	0.0030	0.000046	1	09/30/20 17:48	10/03/20 18:25	7440-41-7	
Boron	0.27	mg/L	0.10	0.0052	1	09/30/20 17:48	10/03/20 18:25	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 17:48	10/03/20 18:25	7440-43-9	
Chromium	0.00070J	mg/L	0.010	0.00055	1	09/30/20 17:48	10/03/20 18:25	7440-47-3	
Cobalt	0.00040J	mg/L	0.0050	0.00038	1	09/30/20 17:48	10/03/20 18:25	7440-48-4	
Lead	0.00021J	mg/L	0.0050	0.000036	1	09/30/20 17:48	10/03/20 18:25	7439-92-1	
Lithium	0.00095J	mg/L	0.030	0.00081	1	09/30/20 17:48	10/03/20 18:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:48	10/03/20 18:25	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 17:48	10/03/20 18:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:48	10/03/20 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	0.00050	0.000078	1	09/29/20 13:30	09/30/20 12:40	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	124	mg/L	10.0	10.0	1		09/30/20 09:30		
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300.0 IC Anions 28 Days

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

Chloride	5.3	mg/L	1.0	0.60	1		09/30/20 21:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 21:08	16984-48-8	
Sulfate	2.9	mg/L	1.0	0.50	1		09/30/20 21:08	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

Sample: FB-3		Lab ID: 92497125004		Collected: 09/24/20 11:00	Received: 09/25/20 13:30	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:32	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 17:48	10/03/20 18:31	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 17:48	10/03/20 18:31	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	09/30/20 17:48	10/03/20 18:31	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 17:48	10/03/20 18:31	7440-41-7		
Boron	ND	mg/L	0.10	0.0052	1	09/30/20 17:48	10/03/20 18:31	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 17:48	10/03/20 18:31	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 17:48	10/03/20 18:31	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 17:48	10/03/20 18:31	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 17:48	10/03/20 18:31	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	09/30/20 17:48	10/03/20 18:31	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:48	10/03/20 18:31	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 17:48	10/03/20 18:31	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:48	10/03/20 18:31	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 12:42	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/30/20 09:31			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/30/20 21:22	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 21:22	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/30/20 21:22	14808-79-8		

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ANALYTICAL RESULTS

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

Sample: B-74 **Lab ID: 92497125005** Collected: 09/25/20 10:05 Received: 09/25/20 13:30 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		09/29/20 15:24		
pH	6.16	Std. Units			1		09/29/20 15:24		

6010D ATL ICP

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

Calcium	18.6	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:37	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	0.00028	1	09/30/20 17:48	10/03/20 18:48	7440-36-0	
Arsenic	0.012	mg/L	0.0050	0.00078	1	09/30/20 17:48	10/03/20 18:48	7440-38-2	
Barium	0.066	mg/L	0.010	0.00071	1	09/30/20 17:48	10/03/20 18:48	7440-39-3	
Beryllium	0.000097J	mg/L	0.0030	0.000046	1	09/30/20 17:48	10/03/20 18:48	7440-41-7	
Boron	0.30	mg/L	0.10	0.0052	1	09/30/20 17:48	10/03/20 18:48	7440-42-8	
Cadmium	0.00017J	mg/L	0.0025	0.00012	1	09/30/20 17:48	10/03/20 18:48	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 17:48	10/03/20 18:48	7440-47-3	
Cobalt	0.0028J	mg/L	0.0050	0.00038	1	09/30/20 17:48	10/03/20 18:48	7440-48-4	
Lead	0.000041J	mg/L	0.0050	0.000036	1	09/30/20 17:48	10/03/20 18:48	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00081	1	09/30/20 17:48	10/03/20 18:48	7439-93-2	
Molybdenum	0.049	mg/L	0.010	0.00069	1	09/30/20 17:48	10/03/20 18:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 17:48	10/03/20 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:48	10/03/20 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	0.00050	0.000078	1	09/29/20 13:30	09/30/20 12:45	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	134	mg/L	10.0	10.0	1		10/01/20 15:22		
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300.0 IC Anions 28 Days

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

Chloride	6.0	mg/L	1.0	0.60	1		09/30/20 22:05	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		09/30/20 22:05	16984-48-8	
Sulfate	20.1	mg/L	1.0	0.50	1		09/30/20 22:05	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

Sample: B-83 **Lab ID: 92497125006** Collected: 09/25/20 09:10 Received: 09/25/20 13:30 Matrix: Water

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

Analytical Method:
 Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		09/29/20 15:24		
pH	5.97	Std. Units			1		09/29/20 15:24		

6010D ATL ICP

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

Calcium	39.8	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:41	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	0.00028	1	09/30/20 17:48	10/03/20 18:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 17:48	10/03/20 18:54	7440-38-2	
Barium	0.027	mg/L	0.010	0.00071	1	09/30/20 17:48	10/03/20 18:54	7440-39-3	
Beryllium	0.00028J	mg/L	0.0030	0.000046	1	09/30/20 17:48	10/03/20 18:54	7440-41-7	
Boron	0.35	mg/L	0.10	0.0052	1	09/30/20 17:48	10/03/20 18:54	7440-42-8	
Cadmium	0.00026J	mg/L	0.0025	0.00012	1	09/30/20 17:48	10/03/20 18:54	7440-43-9	
Chromium	0.0051J	mg/L	0.010	0.00055	1	09/30/20 17:48	10/03/20 18:54	7440-47-3	
Cobalt	0.0073	mg/L	0.0050	0.00038	1	09/30/20 17:48	10/03/20 18:54	7440-48-4	
Lead	0.000065J	mg/L	0.0050	0.000036	1	09/30/20 17:48	10/03/20 18:54	7439-92-1	
Lithium	0.0018J	mg/L	0.030	0.00081	1	09/30/20 17:48	10/03/20 18:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:48	10/03/20 18:54	7439-98-7	
Selenium	0.019	mg/L	0.010	0.0016	1	09/30/20 17:48	10/03/20 18:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:48	10/03/20 18:54	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 12:47	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
 Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	244	mg/L	10.0	10.0	1		10/01/20 15:22		
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300.0 IC Anions 28 Days

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

Chloride	3.0	mg/L	1.0	0.60	1		09/30/20 22:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 22:49	16984-48-8	
Sulfate	107	mg/L	2.0	1.0	2		10/01/20 04:52	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

Sample: B-88 **Lab ID: 92497125007** Collected: 09/25/20 10:15 Received: 09/25/20 13:30 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		09/29/20 15:24		
pH	5.75	Std. Units			1		09/29/20 15:24		

6010D ATL ICP

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

Calcium	79.8	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:45	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	0.00028	1	09/30/20 17:48	10/03/20 19:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 17:48	10/03/20 19:00	7440-38-2	
Barium	0.021	mg/L	0.010	0.00071	1	09/30/20 17:48	10/03/20 19:00	7440-39-3	
Beryllium	0.00063J	mg/L	0.0030	0.000046	1	09/30/20 17:48	10/03/20 19:00	7440-41-7	
Boron	1.8	mg/L	0.10	0.0052	1	09/30/20 17:48	10/03/20 19:00	7440-42-8	
Cadmium	0.00022J	mg/L	0.0025	0.00012	1	09/30/20 17:48	10/03/20 19:00	7440-43-9	
Chromium	0.00085J	mg/L	0.010	0.00055	1	09/30/20 17:48	10/03/20 19:00	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00038	1	09/30/20 17:48	10/03/20 19:00	7440-48-4	
Lead	0.00035J	mg/L	0.0050	0.000036	1	09/30/20 17:48	10/03/20 19:00	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	09/30/20 17:48	10/03/20 19:00	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00069	1	09/30/20 17:48	10/03/20 19:00	7439-98-7	
Selenium	0.0033J	mg/L	0.010	0.0016	1	09/30/20 17:48	10/03/20 19:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:48	10/03/20 19:00	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 12:50	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	624	mg/L	20.0	20.0	1		10/01/20 15:22		
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300.0 IC Anions 28 Days

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

Chloride	10	mg/L	1.0	0.60	1		09/30/20 23:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 23:03	16984-48-8	
Sulfate	344	mg/L	7.0	3.5	7		10/01/20 05:06	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

Sample: B-100 **Lab ID: 92497125008** Collected: 09/25/20 10:50 Received: 09/25/20 13:30 Matrix: Water

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

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		09/29/20 15:24		
pH	5.53	Std. Units			1		09/29/20 15:24		

6010D ATL ICP

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

Calcium	44.7	mg/L	1.0	0.070	1	09/30/20 14:57	10/01/20 20:58	7440-70-2	
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6020 MET ICPMS

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

Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 17:48	10/03/20 19:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 17:48	10/03/20 19:06	7440-38-2	
Barium	0.022	mg/L	0.010	0.00071	1	09/30/20 17:48	10/03/20 19:06	7440-39-3	
Beryllium	0.00035J	mg/L	0.0030	0.000046	1	09/30/20 17:48	10/03/20 19:06	7440-41-7	
Boron	0.27	mg/L	0.10	0.0052	1	09/30/20 17:48	10/03/20 19:06	7440-42-8	
Cadmium	0.00027J	mg/L	0.0025	0.00012	1	09/30/20 17:48	10/03/20 19:06	7440-43-9	
Chromium	0.00094J	mg/L	0.010	0.00055	1	09/30/20 17:48	10/03/20 19:06	7440-47-3	
Cobalt	0.034	mg/L	0.0050	0.00038	1	09/30/20 17:48	10/03/20 19:06	7440-48-4	
Lead	0.00021J	mg/L	0.0050	0.000036	1	09/30/20 17:48	10/03/20 19:06	7439-92-1	
Lithium	0.0027J	mg/L	0.030	0.00081	1	09/30/20 17:48	10/03/20 19:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 17:48	10/03/20 19:06	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 17:48	10/03/20 19:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 17:48	10/03/20 19:06	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 12:52	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	724	mg/L	20.0	20.0	1		10/01/20 15:22		
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300.0 IC Anions 28 Days

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

Chloride	13.2	mg/L	1.0	0.60	1		09/30/20 23:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 23:18	16984-48-8	
Sulfate	385	mg/L	8.0	4.0	8		10/01/20 05:20	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

Sample: B-56		Lab ID: 92497125009		Collected: 09/28/20 11:14		Received: 09/28/20 14:21		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/29/20 15:24		
pH	4.90	Std. Units			1		09/29/20 15:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	15.1	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 19:50	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	10/01/20 15:24	10/02/20 19:51	7440-36-0	
Arsenic	0.0047J	mg/L	0.0050	0.00078	1	10/01/20 15:24	10/02/20 19:51	7440-38-2	
Barium	0.026	mg/L	0.010	0.00071	1	10/01/20 15:24	10/02/20 19:51	7440-39-3	
Beryllium	0.0012J	mg/L	0.0030	0.000046	1	10/01/20 15:24	10/02/20 19:51	7440-41-7	
Boron	1.4	mg/L	0.10	0.0052	1	10/01/20 15:24	10/02/20 19:51	7440-42-8	
Cadmium	0.00024J	mg/L	0.0025	0.00012	1	10/01/20 15:24	10/02/20 19:51	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	10/01/20 15:24	10/02/20 19:51	7440-47-3	
Cobalt	0.042	mg/L	0.0050	0.00038	1	10/01/20 15:24	10/02/20 19:51	7440-48-4	
Lead	0.000091J	mg/L	0.0050	0.000036	1	10/01/20 15:24	10/02/20 19:51	7439-92-1	
Lithium	0.0050J	mg/L	0.030	0.00081	1	10/01/20 15:24	10/02/20 19:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/01/20 15:24	10/02/20 19:51	7439-98-7	
Selenium	0.029	mg/L	0.010	0.0016	1	10/01/20 15:24	10/02/20 19:51	7782-49-2	
Thallium	0.00023J	mg/L	0.0010	0.00014	1	10/01/20 15:24	10/02/20 19:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 12:54	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	320	mg/L	10.0	10.0	1		10/01/20 15:26		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.7	mg/L	1.0	0.60	1		09/30/20 18:20	16887-00-6	
Fluoride	0.098J	mg/L	0.10	0.050	1		09/30/20 18:20	16984-48-8	
Sulfate	211	mg/L	4.0	2.0	4		09/30/20 22:35	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

Sample: B-82 **Lab ID: 92497125010** Collected: 09/28/20 10:14 Received: 09/28/20 14:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/29/20 15:24		
pH	5.54	Std. Units			1		09/29/20 15:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	26.5	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 19:54	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	10/01/20 19:00	10/03/20 15:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	10/01/20 19:00	10/03/20 15:51	7440-38-2	
Barium	0.023	mg/L	0.010	0.00071	1	10/01/20 19:00	10/03/20 15:51	7440-39-3	
Beryllium	0.0015J	mg/L	0.0030	0.000046	1	10/01/20 19:00	10/03/20 15:51	7440-41-7	
Boron	1.1	mg/L	0.10	0.0052	1	10/01/20 19:00	10/03/20 15:51	7440-42-8	
Cadmium	0.00066J	mg/L	0.0025	0.00012	1	10/01/20 19:00	10/03/20 15:51	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	10/01/20 19:00	10/03/20 15:51	7440-47-3	
Cobalt	0.0053	mg/L	0.0050	0.00038	1	10/01/20 19:00	10/03/20 15:51	7440-48-4	
Lead	0.00011J	mg/L	0.0050	0.000036	1	10/01/20 19:00	10/03/20 15:51	7439-92-1	
Lithium	0.0010J	mg/L	0.030	0.00081	1	10/01/20 19:00	10/03/20 15:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/01/20 19:00	10/03/20 15:51	7439-98-7	
Selenium	0.0021J	mg/L	0.010	0.0016	1	10/01/20 19:00	10/03/20 15:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/01/20 19:00	10/03/20 15:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 12:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	454	mg/L	10.0	10.0	1		10/01/20 15:27		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.9	mg/L	1.0	0.60	1		09/30/20 18:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 18:35	16984-48-8	
Sulfate	287	mg/L	6.0	3.0	6		09/30/20 22:56	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

Sample: B-93		Lab ID: 92497125011		Collected: 09/28/20 09:50		Received: 09/28/20 14:21		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	4.67	Std. Units			1		09/29/20 15:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	110	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 19:58	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0014J	mg/L	0.0030	0.00028	1	10/01/20 19:00	10/03/20 16:14	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.00078	1	10/01/20 19:00	10/03/20 16:14	7440-38-2	
Barium	0.017	mg/L	0.010	0.00071	1	10/01/20 19:00	10/03/20 16:14	7440-39-3	
Beryllium	0.015	mg/L	0.0030	0.000046	1	10/01/20 19:00	10/03/20 16:14	7440-41-7	
Boron	3.0	mg/L	0.10	0.0052	1	10/01/20 19:00	10/03/20 16:14	7440-42-8	
Cadmium	0.00074J	mg/L	0.0025	0.00012	1	10/01/20 19:00	10/03/20 16:14	7440-43-9	
Chromium	0.00066J	mg/L	0.010	0.00055	1	10/01/20 19:00	10/03/20 16:14	7440-47-3	
Cobalt	0.064	mg/L	0.0050	0.00038	1	10/01/20 19:00	10/03/20 16:14	7440-48-4	
Lead	0.00012J	mg/L	0.0050	0.000036	1	10/01/20 19:00	10/03/20 16:14	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	10/01/20 19:00	10/03/20 16:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/01/20 19:00	10/03/20 16:14	7439-98-7	
Selenium	0.036	mg/L	0.010	0.0016	1	10/01/20 19:00	10/03/20 16:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/01/20 19:00	10/03/20 16:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00024J	mg/L	0.00050	0.000078	1	09/29/20 13:30	09/30/20 12:59	7439-97-6	B
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	686	mg/L	20.0	20.0	1		10/01/20 15:27		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.8	mg/L	1.0	0.60	1		10/01/20 14:53	16887-00-6	
Fluoride	0.30	mg/L	0.10	0.050	1		10/01/20 14:53	16984-48-8	
Sulfate	419	mg/L	9.0	4.5	9		10/01/20 20:35	14808-79-8	

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

QC Batch: 569672 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125001

METHOD BLANK: 3017857 Matrix: Water
 Associated Lab Samples: 92497125001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/29/20 19:56	

LABORATORY CONTROL SAMPLE: 3017858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017859 3017860

Parameter	Units	92496847006		3017859		3017860		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS Result	MSD Result						
Calcium	mg/L	2510 ug/L	1	1	3.4	3.4	93	92	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

QC Batch: 570008 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125002, 92497125003, 92497125004, 92497125005, 92497125006, 92497125007, 92497125008

METHOD BLANK: 3019452 Matrix: Water
 Associated Lab Samples: 92497125002, 92497125003, 92497125004, 92497125005, 92497125006, 92497125007, 92497125008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	10/01/20 19:24	

LABORATORY CONTROL SAMPLE: 3019453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.96J	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3019454 3019455

Parameter	Units	92496941020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	53.1	1	1	55.5	54.3	237	115	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

QC Batch: 570301 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125009, 92497125010, 92497125011

METHOD BLANK: 3020964 Matrix: Water
 Associated Lab Samples: 92497125009, 92497125010, 92497125011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	10/02/20 18:13	

LABORATORY CONTROL SAMPLE: 3020965

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: 3020966 3020967

Parameter	Units	3020966		3020967		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497149010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	38.6	1	1	37.8	39.0	-77	45	75-125	3	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

QC Batch: 569774

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92497125001

METHOD BLANK: 3018372

Matrix: Water

Associated Lab Samples: 92497125001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/01/20 09:53	
Arsenic	mg/L	ND	0.0050	0.00078	10/01/20 09:53	
Barium	mg/L	ND	0.010	0.00071	10/01/20 09:53	
Beryllium	mg/L	ND	0.0030	0.000046	10/01/20 09:53	
Boron	mg/L	ND	0.10	0.0052	10/01/20 09:53	
Cadmium	mg/L	ND	0.0025	0.00012	10/01/20 09:53	
Chromium	mg/L	ND	0.010	0.00055	10/01/20 09:53	
Cobalt	mg/L	ND	0.0050	0.00038	10/01/20 09:53	
Lead	mg/L	ND	0.0050	0.000036	10/01/20 09:53	
Lithium	mg/L	ND	0.030	0.00081	10/01/20 09:53	
Molybdenum	mg/L	ND	0.010	0.00069	10/01/20 09:53	
Selenium	mg/L	ND	0.010	0.0016	10/01/20 09:53	
Thallium	mg/L	ND	0.0010	0.00014	10/01/20 09:53	

LABORATORY CONTROL SAMPLE: 3018373

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	0.097	97	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.91	91	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.092	92	80-120	
Cobalt	mg/L	0.1	0.092	92	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.092	92	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018374

3018375

Parameter	Units	92497149004 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

Parameter	Units	3018374		3018375		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497149004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.0039J	0.1	0.1	0.10	0.10	99	100	75-125	1	20		
Beryllium	mg/L	0.000059J	0.1	0.1	0.090	0.091	90	91	75-125	1	20		
Boron	mg/L	0.0073J	1	1	0.88	0.90	87	89	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.095	0.095	94	94	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		
Lead	mg/L	0.00015J	0.1	0.1	0.093	0.094	92	94	75-125	1	20		
Lithium	mg/L	0.013J	0.1	0.1	0.10	0.10	91	91	75-125	0	20		
Molybdenum	mg/L	0.010	0.1	0.1	0.11	0.11	96	97	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.099	0.096	98	95	75-125	3	20		
Thallium	mg/L	0.00016J	0.1	0.1	0.094	0.095	94	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

QC Batch: 570089 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125002, 92497125003, 92497125004, 92497125005, 92497125006, 92497125007, 92497125008

METHOD BLANK: 3020046 Matrix: Water
 Associated Lab Samples: 92497125002, 92497125003, 92497125004, 92497125005, 92497125006, 92497125007, 92497125008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/03/20 17:40	
Arsenic	mg/L	ND	0.0050	0.00078	10/03/20 17:40	
Barium	mg/L	ND	0.010	0.00071	10/03/20 17:40	
Beryllium	mg/L	ND	0.0030	0.000046	10/03/20 17:40	
Boron	mg/L	ND	0.10	0.0052	10/03/20 17:40	
Cadmium	mg/L	ND	0.0025	0.00012	10/03/20 17:40	
Chromium	mg/L	ND	0.010	0.00055	10/03/20 17:40	
Cobalt	mg/L	ND	0.0050	0.00038	10/03/20 17:40	
Lead	mg/L	ND	0.0050	0.000036	10/03/20 17:40	
Lithium	mg/L	ND	0.030	0.00081	10/03/20 17:40	
Molybdenum	mg/L	ND	0.010	0.00069	10/03/20 17:40	
Selenium	mg/L	ND	0.010	0.0016	10/03/20 17:40	
Thallium	mg/L	ND	0.0010	0.00014	10/03/20 17:40	

LABORATORY CONTROL SAMPLE: 3020047

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	0.092	92	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020048 3020049

Parameter	Units	92496941025 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.095	0.10	95	100	75-125	6	20	
Arsenic	mg/L	0.00088J	0.1	0.1	0.095	0.095	94	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

Parameter	Units	3020048		3020049		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92496941025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.032	0.1	0.1	0.13	0.13	95	98	75-125	3	20		
Beryllium	mg/L	0.00070J	0.1	0.1	0.099	0.097	98	97	75-125	1	20		
Boron	mg/L	0.84	1	1	2.0	1.9	112	107	75-125	3	20		
Cadmium	mg/L	0.00028J	0.1	0.1	0.097	0.097	97	97	75-125	0	20		
Chromium	mg/L	0.0028J	0.1	0.1	0.10	0.10	100	100	75-125	1	20		
Cobalt	mg/L	0.027	0.1	0.1	0.13	0.13	99	98	75-125	1	20		
Lead	mg/L	0.00022J	0.1	0.1	0.087	0.094	86	93	75-125	8	20		
Lithium	mg/L	0.0012J	0.1	0.1	0.10	0.10	102	100	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20		
Selenium	mg/L	0.012	0.1	0.1	0.11	0.11	96	95	75-125	1	20		
Thallium	mg/L	0.00034J	0.1	0.1	0.093	0.094	93	94	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

QC Batch: 570307	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92497125009

METHOD BLANK: 3020982 Matrix: Water

Associated Lab Samples: 92497125009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/02/20 17:11	
Arsenic	mg/L	ND	0.0050	0.00078	10/02/20 17:11	
Barium	mg/L	ND	0.010	0.00071	10/02/20 17:11	
Beryllium	mg/L	ND	0.0030	0.000046	10/02/20 17:11	
Boron	mg/L	ND	0.10	0.0052	10/02/20 17:11	
Cadmium	mg/L	ND	0.0025	0.00012	10/02/20 17:11	
Chromium	mg/L	ND	0.010	0.00055	10/02/20 17:11	
Cobalt	mg/L	ND	0.0050	0.00038	10/02/20 17:11	
Lead	mg/L	ND	0.0050	0.000036	10/02/20 17:11	
Lithium	mg/L	ND	0.030	0.00081	10/02/20 17:11	
Molybdenum	mg/L	ND	0.010	0.00069	10/02/20 17:11	
Selenium	mg/L	ND	0.010	0.0016	10/02/20 17:11	
Thallium	mg/L	ND	0.0010	0.00014	10/02/20 17:11	

LABORATORY CONTROL SAMPLE: 3020983

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	0.098	98	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020984 3020985

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497149015	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	98	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

Parameter	Units	3020984		3020985		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497149015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.079	0.1	0.1	0.18	0.18	101	99	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		
Boron	mg/L	2.1	1	1	3.1	3.1	99	97	75-125	1	20		
Cadmium	mg/L	0.00027J	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20		
Lithium	mg/L	0.0065J	0.1	0.1	0.10	0.10	97	97	75-125	0	20		
Molybdenum	mg/L	0.0012J	0.1	0.1	0.10	0.10	101	100	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

QC Batch: 570375

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92497125010, 92497125011

METHOD BLANK: 3021668

Matrix: Water

Associated Lab Samples: 92497125010, 92497125011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/03/20 14:31	
Arsenic	mg/L	ND	0.0050	0.00078	10/03/20 14:31	
Barium	mg/L	ND	0.010	0.00071	10/03/20 14:31	
Beryllium	mg/L	ND	0.0030	0.000046	10/03/20 14:31	
Boron	mg/L	ND	0.10	0.0052	10/03/20 14:31	
Cadmium	mg/L	ND	0.0025	0.00012	10/03/20 14:31	
Chromium	mg/L	ND	0.010	0.00055	10/03/20 14:31	
Cobalt	mg/L	ND	0.0050	0.00038	10/03/20 14:31	
Lead	mg/L	ND	0.0050	0.000036	10/03/20 14:31	
Lithium	mg/L	ND	0.030	0.00081	10/03/20 14:31	
Molybdenum	mg/L	ND	0.010	0.00069	10/03/20 14:31	
Selenium	mg/L	ND	0.010	0.0016	10/03/20 14:31	
Thallium	mg/L	ND	0.0010	0.00014	10/03/20 14:31	

LABORATORY CONTROL SAMPLE: 3021669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.092	92	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.092	92	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3021670 3021671

Parameter	Units	92497125010 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.095	0.094	94	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3021670												3021671	
Parameter	Units	92497125010 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD			
Barium	mg/L	0.023	0.1	0.1	0.12	0.12	97	99	75-125	1	20		
Beryllium	mg/L	0.0015J	0.1	0.1	0.098	0.10	97	100	75-125	3	20		
Boron	mg/L	1.1	1	1	2.1	2.2	101	114	75-125	6	20		
Cadmium	mg/L	0.00066J	0.1	0.1	0.097	0.097	96	97	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Cobalt	mg/L	0.0053	0.1	0.1	0.10	0.10	98	99	75-125	1	20		
Lead	mg/L	0.00011J	0.1	0.1	0.095	0.095	95	95	75-125	1	20		
Lithium	mg/L	0.0010J	0.1	0.1	0.10	0.10	100	103	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Selenium	mg/L	0.0021J	0.1	0.1	0.097	0.094	95	92	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20		

SAMPLE DUPLICATE: 3021683

Parameter	Units	92497981001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
Antimony	mg/L	ND	ND		20	
Arsenic	mg/L	ND	0.0078	4	20	
Barium	mg/L	ND	0.0046J		20	
Beryllium	mg/L	ND	ND		20	
Boron	mg/L	ND	0.018J		20	
Cadmium	mg/L	ND	ND		20	
Chromium	mg/L	ND	0.00061J		20	
Cobalt	mg/L	ND	0.00074J		20	
Lead	mg/L	ND	0.00016J		20	
Lithium	mg/L	ND	ND		20	
Molybdenum	mg/L	ND	ND		20	
Selenium	mg/L	ND	ND		20	
Thallium	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

QC Batch: 569295 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125001

METHOD BLANK: 3016173 Matrix: Water
 Associated Lab Samples: 92497125001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	09/29/20 07:07	

LABORATORY CONTROL SAMPLE: 3016174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3016175 3016176

Parameter	Units	92496847015		3016176		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0025	99	104	75-125	5	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

QC Batch: 569682 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125002, 92497125003, 92497125004, 92497125005, 92497125006, 92497125007, 92497125008, 92497125009, 92497125010, 92497125011

METHOD BLANK: 3017915 Matrix: Water
 Associated Lab Samples: 92497125002, 92497125003, 92497125004, 92497125005, 92497125006, 92497125007, 92497125008, 92497125009, 92497125010, 92497125011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.000096J	0.00050	0.000078	09/30/20 11:53	

LABORATORY CONTROL SAMPLE: 3017916

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: 3017917 3017918

Parameter	Units	92497141011 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	0.0025	96	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

QC Batch: 569386 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125001

METHOD BLANK: 3016890 Matrix: Water
 Associated Lab Samples: 92497125001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/28/20 14:18	

LABORATORY CONTROL SAMPLE: 3016891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	429	107	84-108	

SAMPLE DUPLICATE: 3016892

Parameter	Units	92497125001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	260	295	13	10	D6

SAMPLE DUPLICATE: 3016893

Parameter	Units	92497141008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	59.0	31	10	D6

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

QC Batch: 569874 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125002

METHOD BLANK: 3018862 Matrix: Water
 Associated Lab Samples: 92497125002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/30/20 09:26	

LABORATORY CONTROL SAMPLE: 3018863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	84-108	

SAMPLE DUPLICATE: 3018864

Parameter	Units	92497404001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	130	150	14	10	D6

SAMPLE DUPLICATE: 3018865

Parameter	Units	92495894026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	790	774	2	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

QC Batch: 569876 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125003, 92497125004

METHOD BLANK: 3018866 Matrix: Water
 Associated Lab Samples: 92497125003, 92497125004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/30/20 09:30	

LABORATORY CONTROL SAMPLE: 3018867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	403	101	84-108	

SAMPLE DUPLICATE: 3018868

Parameter	Units	92497125003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	124	118	5	10	

SAMPLE DUPLICATE: 3018869

Parameter	Units	92497149013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

QC Batch: 570219 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125005, 92497125006, 92497125007, 92497125008

METHOD BLANK: 3020458 Matrix: Water
 Associated Lab Samples: 92497125005, 92497125006, 92497125007, 92497125008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/01/20 15:22	

LABORATORY CONTROL SAMPLE: 3020459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	412	103	84-108	

SAMPLE DUPLICATE: 3020460

Parameter	Units	92497125005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	134	142	6	10	

SAMPLE DUPLICATE: 3020461

Parameter	Units	92497146006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	878	918	4	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

QC Batch: 570220 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92497125009, 92497125010, 92497125011

METHOD BLANK: 3020462 Matrix: Water
 Associated Lab Samples: 92497125009, 92497125010, 92497125011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/01/20 15:26	

LABORATORY CONTROL SAMPLE: 3020463

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	411	103	84-108	

SAMPLE DUPLICATE: 3020464

Parameter	Units	92496524014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	188	205	9	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 ASSESSMENT

Pace Project No.: 92497125

QC Batch: 569514	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: 92497125001

METHOD BLANK: 3017398 Matrix: Water

Associated Lab Samples: 92497125001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/29/20 11:26	
Fluoride	mg/L	ND	0.10	0.050	09/29/20 11:26	
Sulfate	mg/L	ND	1.0	0.50	09/29/20 11:26	

LABORATORY CONTROL SAMPLE: 3017399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.9	108	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017400 3017401

Parameter	Units	92496941018		MS Spike Conc.		MSD Spike Conc.		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Conc.										
Chloride	mg/L	ND	50	50	52.4	51.8	105	104	90-110	1	10				
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	93	94	90-110	0	10				
Sulfate	mg/L	ND	50	50	51.0	50.1	101	100	90-110	2	10				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017402 3017403

Parameter	Units	92496941019		MS Spike Conc.		MSD Spike Conc.		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Conc.										
Chloride	mg/L	ND	50	50	51.7	51.7	103	103	90-110	0	10				
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	91	95	90-110	5	10				
Sulfate	mg/L	ND	50	50	50.0	49.9	100	100	90-110	0	10				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

QC Batch: 569832 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: 92497125002, 92497125003, 92497125004, 92497125005, 92497125006, 92497125007, 92497125008

METHOD BLANK: 3018769 Matrix: Water
 Associated Lab Samples: 92497125002, 92497125003, 92497125004, 92497125005, 92497125006, 92497125007, 92497125008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/30/20 20:24	
Fluoride	mg/L	ND	0.10	0.050	09/30/20 20:24	
Sulfate	mg/L	ND	1.0	0.50	09/30/20 20:24	

LABORATORY CONTROL SAMPLE: 3018770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.0	102	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018771 3018772

Parameter	Units	92497125004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
Chloride	mg/L	ND	50	50	51.9	51.4	104	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	105	103	90-110	2	10		
Sulfate	mg/L	ND	50	50	50.5	50.0	101	100	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018773 3018774

Parameter	Units	92497141016		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
Chloride	mg/L	ND	50	50	51.8	51.5	104	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.5	105	100	90-110	4	10		
Sulfate	mg/L	ND	50	50	50.5	50.1	101	100	90-110	1	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

QC Batch: 569922	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: 92497125009, 92497125010

METHOD BLANK: 3019036 Matrix: Water

Associated Lab Samples: 92497125009, 92497125010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/30/20 11:24	
Fluoride	mg/L	ND	0.10	0.050	09/30/20 11:24	
Sulfate	mg/L	ND	1.0	0.50	09/30/20 11:24	

LABORATORY CONTROL SAMPLE: 3019037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	50.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3019038 3019039

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497713005 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	25.7	50	50	75.8	77.8	100	104	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.3	2.9	92	116	90-110	23	10	M1,R1	
Sulfate	mg/L	1.3	50	50	53.1	55.8	104	109	90-110	5	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3019040 3019041

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497146005 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	7.5	50	50	59.7	61.3	104	108	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	1.8	2.0	71	81	90-110	13	10	M1,R1	
Sulfate	mg/L	7.2	50	50	59.9	61.2	105	108	90-110	2	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

QC Batch: 570137	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: 92497125011

METHOD BLANK: 3020267 Matrix: Water

Associated Lab Samples: 92497125011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/01/20 07:56	
Fluoride	mg/L	ND	0.10	0.050	10/01/20 07:56	
Sulfate	mg/L	ND	1.0	0.50	10/01/20 07:56	

LABORATORY CONTROL SAMPLE: 3020268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.3	107	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	53.4	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020269 3020270

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92495894028 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	542	50	50	583	587	82	89	90-110	1	10	M6	
Fluoride	mg/L	0.41	2.5	2.5	3.2	3.1	110	109	90-110	1	10		
Sulfate	mg/L	3480	50	50	3520	3530	86	111	90-110	0	10	M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020271 3020272

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92496914018 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1.6	50	50	56.0	56.5	109	110	90-110	1	10		
Fluoride	mg/L	0.063J	2.5	2.5	2.8	2.8	109	111	90-110	2	10	M1	
Sulfate	mg/L	110	50	50	160	161	101	103	90-110	1	10		

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QUALIFIERS

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH ASSESSMENT
 Pace Project No.: 92497125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92497125001	B-89				
92497125002	B-62				
92497125003	B-77				
92497125005	B-74				
92497125006	B-83				
92497125007	B-88				
92497125008	B-100				
92497125009	B-56				
92497125010	B-82				
92497125011	B-93				
92497125001	B-89	EPA 3010A	569672	EPA 6010D	569722
92497125002	B-62	EPA 3010A	570008	EPA 6010D	570053
92497125003	B-77	EPA 3010A	570008	EPA 6010D	570053
92497125004	FB-3	EPA 3010A	570008	EPA 6010D	570053
92497125005	B-74	EPA 3010A	570008	EPA 6010D	570053
92497125006	B-83	EPA 3010A	570008	EPA 6010D	570053
92497125007	B-88	EPA 3010A	570008	EPA 6010D	570053
92497125008	B-100	EPA 3010A	570008	EPA 6010D	570053
92497125009	B-56	EPA 3010A	570301	EPA 6010D	570373
92497125010	B-82	EPA 3010A	570301	EPA 6010D	570373
92497125011	B-93	EPA 3010A	570301	EPA 6010D	570373
92497125001	B-89	EPA 3005A	569774	EPA 6020B	569814
92497125002	B-62	EPA 3005A	570089	EPA 6020B	570110
92497125003	B-77	EPA 3005A	570089	EPA 6020B	570110
92497125004	FB-3	EPA 3005A	570089	EPA 6020B	570110
92497125005	B-74	EPA 3005A	570089	EPA 6020B	570110
92497125006	B-83	EPA 3005A	570089	EPA 6020B	570110
92497125007	B-88	EPA 3005A	570089	EPA 6020B	570110
92497125008	B-100	EPA 3005A	570089	EPA 6020B	570110
92497125009	B-56	EPA 3005A	570307	EPA 6020B	570372
92497125010	B-82	EPA 3005A	570375	EPA 6020B	570411
92497125011	B-93	EPA 3005A	570375	EPA 6020B	570411
92497125001	B-89	EPA 7470A	569295	EPA 7470A	569452
92497125002	B-62	EPA 7470A	569682	EPA 7470A	569887
92497125003	B-77	EPA 7470A	569682	EPA 7470A	569887
92497125004	FB-3	EPA 7470A	569682	EPA 7470A	569887
92497125005	B-74	EPA 7470A	569682	EPA 7470A	569887
92497125006	B-83	EPA 7470A	569682	EPA 7470A	569887
92497125007	B-88	EPA 7470A	569682	EPA 7470A	569887
92497125008	B-100	EPA 7470A	569682	EPA 7470A	569887
92497125009	B-56	EPA 7470A	569682	EPA 7470A	569887
92497125010	B-82	EPA 7470A	569682	EPA 7470A	569887
92497125011	B-93	EPA 7470A	569682	EPA 7470A	569887
92497125001	B-89	SM 2450C-2011	569386		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH ASSESSMENT

Pace Project No.: 92497125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92497125002	B-62	SM 2450C-2011	569874		
92497125003	B-77	SM 2450C-2011	569876		
92497125004	FB-3	SM 2450C-2011	569876		
92497125005	B-74	SM 2450C-2011	570219		
92497125006	B-83	SM 2450C-2011	570219		
92497125007	B-88	SM 2450C-2011	570219		
92497125008	B-100	SM 2450C-2011	570219		
92497125009	B-56	SM 2450C-2011	570220		
92497125010	B-82	SM 2450C-2011	570220		
92497125011	B-93	SM 2450C-2011	570220		
92497125001	B-89	EPA 300.0 Rev 2.1 1993	569514		
92497125002	B-62	EPA 300.0 Rev 2.1 1993	569832		
92497125003	B-77	EPA 300.0 Rev 2.1 1993	569832		
92497125004	FB-3	EPA 300.0 Rev 2.1 1993	569832		
92497125005	B-74	EPA 300.0 Rev 2.1 1993	569832		
92497125006	B-83	EPA 300.0 Rev 2.1 1993	569832		
92497125007	B-88	EPA 300.0 Rev 2.1 1993	569832		
92497125008	B-100	EPA 300.0 Rev 2.1 1993	569832		
92497125009	B-56	EPA 300.0 Rev 2.1 1993	569922		
92497125010	B-82	EPA 300.0 Rev 2.1 1993	569922		
92497125011	B-93	EPA 300.0 Rev 2.1 1993	570137		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GA POWER

WO#: 92497125



Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Prog. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other Ziploc

Thermometer Used THE 211 Type of Ice: Ice Blue None Samples on ice, cooling process has begun

Cooler Temperature 1.0 Biological Tissue is Present: Yes No

Date and initials of person examining contents: Kew

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	1.	
Chain of Custody Filled Out:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	2.	
Chain of Custody Relinquished:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	3.	
Sampler Name & Signature on COC:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	4.	
Samples Arrived within Hold Time:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	5.	
Short Hold Time Analysis (<72hr):	<u>Yes</u> <u>Yes</u> <u>Yes</u>	6.	
Rush Turn Around Time Requested:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	7.	
Sufficient Volume:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	8.	
Correct Containers Used:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	9.	
-Paper Containers Used:	<u>Yes</u> <u>Yes</u> <u>Yes</u>		
Containers Intact:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	10.	
Filtered volume received for Dissolved tests	<u>Yes</u> <u>Yes</u> <u>Yes</u>	11.	
Sample Labels match COC:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	12.	
-Includes date/time/ID/Analysis Matrix: <u>WT</u>			
All containers needing preservation have been checked.	<u>Yes</u> <u>Yes</u> <u>Yes</u>	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<u>Yes</u> <u>Yes</u> <u>Yes</u>		
exceptions: VOA, sulfide, SOC, O&D, W-COD (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	initial when completed	tot # of added preservative
Samples checked for dechlorination:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	14.	
Headspace in VOA Vials (>6mm):	<u>Yes</u> <u>Yes</u> <u>Yes</u>	15.	
Trip Blank Present:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	16.	
Trip Blank Custody Seals Present	<u>Yes</u> <u>Yes</u> <u>Yes</u>		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

Reserve

CHAIN-OF-CUSTODY / Analytical Request Document
This document is a U.S. GOVERNMENT WORK. All services listed must be approved by the...

Page 1 of 1

Section 1

Section 2

Section 3

Client Name: <i>[Blank]</i>	Case No.: <i>[Blank]</i>	Client Address: <i>[Blank]</i>	Client Phone: <i>[Blank]</i>	Client Email: <i>[Blank]</i>	Case Type: <i>[Blank]</i>	Case Status: <i>[Blank]</i>	Case Date: <i>[Blank]</i>
Requesting Agency: <i>[Blank]</i>	Requesting Agency Contact: <i>[Blank]</i>	Requesting Agency Phone: <i>[Blank]</i>	Requesting Agency Email: <i>[Blank]</i>	Requesting Agency Address: <i>[Blank]</i>	Requesting Agency Fax: <i>[Blank]</i>	Requesting Agency City: <i>[Blank]</i>	Requesting Agency State: <i>[Blank]</i>
Requesting Agency Title: <i>[Blank]</i>	Requesting Agency Position: <i>[Blank]</i>	Requesting Agency Department: <i>[Blank]</i>	Requesting Agency Division: <i>[Blank]</i>	Requesting Agency Office: <i>[Blank]</i>	Requesting Agency Country: <i>[Blank]</i>	Requesting Agency Zip: <i>[Blank]</i>	Requesting Agency Latitude: <i>[Blank]</i>
Requesting Agency Longitude: <i>[Blank]</i>	Requesting Agency Time Zone: <i>[Blank]</i>	Requesting Agency Country Code: <i>[Blank]</i>	Requesting Agency Currency: <i>[Blank]</i>	Requesting Agency Language: <i>[Blank]</i>	Requesting Agency Character Set: <i>[Blank]</i>	Requesting Agency Encoding: <i>[Blank]</i>	Requesting Agency Protocol: <i>[Blank]</i>

ITEM #	DESCRIPTION	TYPE	UNIT	QTY	ANALYTICAL TESTS AT COLLECTION		PRESERVATION		ANALYTICAL TEST	DATE	BY	REMARKS
					TEST	UNIT	TEST	UNIT				
1	SAMPLE ID See Backsheet for Detail Sample for Initial Analysis											
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

INITIALS	DATE	TIME	DESCRIPTION	UNIT	QTY	DATE	TIME	DESCRIPTION	UNIT	QTY
<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>
<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>
<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>	<i>[Blank]</i>

Sample by: Mike Towne

[Signature]

7:25

2010

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-Of-Custody is a critical document. All relevant fields must be completed accurately.

Page: 1 of 1

Section 1 Requester Information	Section 2 Requester Information	Section 3 Requester Information
Requester Name: [Blank]	Requester Title: [Blank]	Requester Agency: [Blank]
Requester Address: [Blank]	Requester Phone: [Blank]	Requester Email: [Blank]
Requester Fax: [Blank]	Requester Email: [Blank]	Requester Agency: [Blank]
Requester City: [Blank]	Requester State: [Blank]	Requester Zip: [Blank]
Requester Country: [Blank]	Requester Date: [Blank]	Requester Time: [Blank]

ITEM #	SAMPLE ID	DATE	TIME	ANALYSIS TEST	ANALYSIS TEST		REMARKS
					Y/N	Y/N	
1	1410	10/10/08	10:10	GC/MS	Y	N	
2	1417	10/10/08	10:17	GC/MS	Y	N	
3	1418	10/10/08	10:18	GC/MS	Y	N	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Sample by: [Signature] 10/10/08 9:11:00

10/10/08
10:10

Signature

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a log of, document, all requests that must be completed accurately.

Page 1 of 2

Section 1: Analytical Chain Information

Requester: John Doe Date: 10/15/2015
 Requested By: John Doe Date: 10/15/2015
 Requested For: Forensic Analysis

Section 2: Analytical Request Information

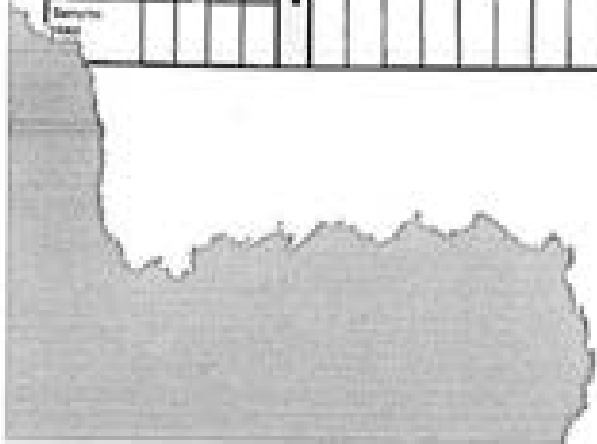
Request ID: 12345 Requested By: John Doe
 Requested For: Forensic Analysis

Section 3: Sample Information

Sample ID: 12345 Requested By: John Doe
 Requested For: Forensic Analysis

ITEM #	SAMPLE ID	DATE	TIME	LOCATION	ANALYST	ANALYSIS		REMARKS
						TEST	RESULT	
1	12345	10/15/2015	10:00	12345	John Doe	GC/MS	100%	Sample 12345
2	12345	10/15/2015	10:05	12345	John Doe	GC/MS	100%	Sample 12345
3	12345	10/15/2015	10:10	12345	John Doe	GC/MS	100%	Sample 12345
4	12345	10/15/2015	10:15	12345	John Doe	GC/MS	100%	Sample 12345
5	12345	10/15/2015	10:20	12345	John Doe	GC/MS	100%	Sample 12345
6	12345	10/15/2015	10:25	12345	John Doe	GC/MS	100%	Sample 12345
7	12345	10/15/2015	10:30	12345	John Doe	GC/MS	100%	Sample 12345
8	12345	10/15/2015	10:35	12345	John Doe	GC/MS	100%	Sample 12345
9	12345	10/15/2015	10:40	12345	John Doe	GC/MS	100%	Sample 12345
10	12345	10/15/2015	10:45	12345	John Doe	GC/MS	100%	Sample 12345
11	12345	10/15/2015	10:50	12345	John Doe	GC/MS	100%	Sample 12345
12	12345	10/15/2015	10:55	12345	John Doe	GC/MS	100%	Sample 12345
13	12345	10/15/2015	11:00	12345	John Doe	GC/MS	100%	Sample 12345
14	12345	10/15/2015	11:05	12345	John Doe	GC/MS	100%	Sample 12345
15	12345	10/15/2015	11:10	12345	John Doe	GC/MS	100%	Sample 12345

Signature: John Doe
 Date: 10/15/2015
 Title: Analyst





CHAIN-OF-CUSTODY / Analytical Request Document

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Section 1 Requestor Information	Section 2 Requestor Information	Section 3 Request Information
Requestor Name: <u>[Blank]</u>	Requestor Title: <u>[Blank]</u>	Requestor Organization: <u>[Blank]</u>
Requestor Address: <u>[Blank]</u>	Requestor Phone: <u>[Blank]</u>	Requestor Fax: <u>[Blank]</u>
Requestor Email: <u>[Blank]</u>	Requestor Signature: <u>[Blank]</u>	Requestor Date: <u>[Blank]</u>
Requestor ID: <u>[Blank]</u>	Requestor PIN: <u>[Blank]</u>	Requestor Project: <u>[Blank]</u>

ITEM #	SAMPLE ID	QTY	DATE	TIME	ANALYST	METHOD	ANALYSIS	Preservation		Analysis Test					REMARKS	
								Y/N	Method	Mobile App (I) and App (N) Test	SI, P, DOI	Residuals (DO, SO)	...			
1	436	1	08/02/2025	11:14	...	...	...	Y	...	...	...	...	...	...	...	...
2	437	1	08/02/2025	09:14	...	...	...	Y	...	...	...	...	...	...	...	...
3	438	2	08/02/2025	09:00	...	...	...	Y	...	...	...	...	...	...	...	...
4																
...																

Signature of Requestor: [Signature] Date: 08/22/25

Signature of Analyst: [Signature] Date: 08/22/25



October 20, 2020

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

RE: Project: MCDONOUGH ASSESSMENT RADS
Pace Project No.: 92497117

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 24, 2020 and September 28, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
Ms. Lauren Petty, Southern Co. Services
Dawn Prell, Golder Associates Inc.
Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH ASSESSMENT RADS
Pace Project No.: 92497117

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 ASSESSMENT RADS

Pace Project No.: 92497117

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92497117001	B-89	Water	09/23/20 15:30	09/24/20 09:25
92497117002	B-62	Water	09/24/20 10:18	09/25/20 13:30
92497117003	B-77	Water	09/24/20 14:19	09/25/20 13:30
92497117004	FB-3	Water	09/24/20 11:00	09/25/20 13:30
92497117005	B-74	Water	09/25/20 10:05	09/25/20 13:30
92497117006	B-83	Water	09/25/20 09:10	09/25/20 13:30
92497117007	B-88	Water	09/25/20 10:15	09/25/20 13:30
92497117008	B-100	Water	09/25/20 10:50	09/25/20 13:30
92497117009	B-56	Water	09/28/20 11:14	09/28/20 14:21
92497117010	B-82	Water	09/28/20 10:14	09/28/20 14:21
92497117011	B-93	Water	09/28/20 09:50	09/28/20 14:21

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH ASSESSMENT RADS
 Pace Project No.: 92497117

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92497117001	B-89	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92497117002	B-62	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497117003	B-77	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497117004	FB-3	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497117005	B-74	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497117006	B-83	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497117007	B-88	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497117008	B-100	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497117009	B-56	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497117010	B-82	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497117011	B-93	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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Sample: B-89 **Lab ID: 92497117001** Collected: 09/23/20 15:30 Received: 09/24/20 09:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.232 ± 0.237 (0.453) C:86% T:NA	pCi/L	10/09/20 09:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.305 ± 0.529 (1.15) C:90% T:75%	pCi/L	10/12/20 19:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.537 ± 0.766 (1.60)	pCi/L	10/14/20 09:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-62 Lab ID: 92497117002 Collected: 09/24/20 10:18 Received: 09/25/20 13:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.669 ± 0.364 (0.523) C:77% T:NA	pCi/L	10/14/20 06:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.608 ± 0.461 (0.920) C:80% T:85%	pCi/L	10/15/20 14:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.28 ± 0.825 (1.44)	pCi/L	10/19/20 11:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-77 Lab ID: 92497117003 Collected: 09/24/20 14:19 Received: 09/25/20 13:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.664 ± 0.343 (0.476) C:89% T:NA	pCi/L	10/14/20 06:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0967 ± 0.397 (0.897) C:83% T:81%	pCi/L	10/15/20 14:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.761 ± 0.740 (1.37)	pCi/L	10/19/20 11:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Sample: FB-3 **Lab ID: 92497117004** Collected: 09/24/20 11:00 Received: 09/25/20 13:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0243 ± 0.241 (0.620) C:87% T:NA	pCi/L	10/14/20 06:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.506 ± 0.523 (1.09) C:78% T:73%	pCi/L	10/15/20 14:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.530 ± 0.764 (1.71)	pCi/L	10/19/20 11:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-74 Lab ID: 92497117005 Collected: 09/25/20 10:05 Received: 09/25/20 13:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.485 ± 0.285 (0.380) C:85% T:NA	pCi/L	10/14/20 06:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.804 ± 0.575 (1.13) C:74% T:76%	pCi/L	10/15/20 14:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.29 ± 0.860 (1.51)	pCi/L	10/19/20 11:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Sample: B-83 **Lab ID: 92497117006** Collected: 09/25/20 09:10 Received: 09/25/20 13:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0359 ± 0.141 (0.374) C:76% T:NA	pCi/L	10/14/20 06:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0284 ± 0.399 (0.932) C:74% T:81%	pCi/L	10/15/20 14:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0359 ± 0.540 (1.31)	pCi/L	10/19/20 11:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-88 Lab ID: 92497117007 Collected: 09/25/20 10:15 Received: 09/25/20 13:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.925 ± 0.386 (0.410) C:90% T:NA	pCi/L	10/14/20 06:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.198 ± 0.363 (0.893) C:78% T:74%	pCi/L	10/15/20 14:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.925 ± 0.749 (1.30)	pCi/L	10/19/20 11:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Sample: B-100 **Lab ID: 92497117008** Collected: 09/25/20 10:50 Received: 09/25/20 13:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.132 ± 0.213 (0.472) C:84% T:NA	pCi/L	10/14/20 06:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.667 ± 0.517 (1.02) C:77% T:67%	pCi/L	10/15/20 14:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.799 ± 0.730 (1.49)	pCi/L	10/19/20 11:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Sample: B-56 **Lab ID: 92497117009** Collected: 09/28/20 11:14 Received: 09/28/20 14:21 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.471 ± 0.280 (0.380) C:84% T:NA	pCi/L	10/14/20 07:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.914 ± 0.481 (0.853) C:77% T:79%	pCi/L	10/15/20 14:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.39 ± 0.761 (1.23)	pCi/L	10/19/20 11:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-82 Lab ID: 92497117010 Collected: 09/28/20 10:14 Received: 09/28/20 14:21 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.157 ± 0.184 (0.362) C:89% T:NA	pCi/L	10/14/20 06:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.590 ± 0.432 (0.845) C:79% T:80%	pCi/L	10/15/20 14:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.747 ± 0.616 (1.21)	pCi/L	10/19/20 11:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

Sample: B-93 **Lab ID: 92497117011** Collected: 09/28/20 09:50 Received: 09/28/20 14:21 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.391 ± 0.271 (0.423) C:82% T:NA	pCi/L	10/14/20 06:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.15 ± 0.502 (0.825) C:83% T:72%	pCi/L	10/19/20 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.54 ± 0.773 (1.25)	pCi/L	10/20/20 08:55	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH ASSESSMENT RADS

Pace Project No.: 92497117

QC Batch: 415890

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92497117001

METHOD BLANK: 2010987

Matrix: Water

Associated Lab Samples: 92497117001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.214 ± 0.231 (0.446) C:86% T:NA	pCi/L	10/09/20 08:12	

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 ASSESSMENT RADS

Pace Project No.: 92497117

QC Batch: 417134

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92497117011

METHOD BLANK: 2016817

Matrix: Water

Associated Lab Samples: 92497117011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.280 ± 0.239 (0.418) C:85% T:NA	pCi/L	10/14/20 06:41	

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 ASSESSMENT RADS
 Pace Project No.: 92497117

QC Batch:	417133	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92497117002, 92497117003, 92497117004, 92497117005, 92497117006, 92497117007, 92497117008, 92497117009, 92497117010

METHOD BLANK: 2016815 Matrix: Water

Associated Lab Samples: 92497117002, 92497117003, 92497117004, 92497117005, 92497117006, 92497117007, 92497117008, 92497117009, 92497117010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.00961 ± 0.301 (0.708) C:79% T:84%	pCi/L	10/15/20 14:13	

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 ASSESSMENT RADS
 Pace Project No.: 92497117

QC Batch:	417132	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92497117002, 92497117003, 92497117004, 92497117005, 92497117006, 92497117007, 92497117008, 92497117009, 92497117010

METHOD BLANK: 2016814 Matrix: Water

Associated Lab Samples: 92497117002, 92497117003, 92497117004, 92497117005, 92497117006, 92497117007, 92497117008, 92497117009, 92497117010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0977 ± 0.149 (0.503) C:90% T:NA	pCi/L	10/14/20 06:25	

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 ASSESSMENT RADS

Pace Project No.: 92497117

QC Batch: 417135

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92497117011

METHOD BLANK: 2016818

Matrix: Water

Associated Lab Samples: 92497117011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.274 ± 0.291 (0.602) C:84% T:86%	pCi/L	10/15/20 11:05	

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 ASSESSMENT RADS

Pace Project No.: 92497117

QC Batch: 415888

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92497117001

METHOD BLANK: 2010985

Matrix: Water

Associated Lab Samples: 92497117001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.197 ± 0.376 (0.826) C:67% T:78%	pCi/L	10/12/20 14:59	

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 ASSESSMENT RADS

Pace Project No.: 92497117

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH ASSESSMENT RADS
 Pace Project No.: 92497117

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92497117001	B-89	EPA 9315	415890		
92497117002	B-62	EPA 9315	417132		
92497117003	B-77	EPA 9315	417132		
92497117004	FB-3	EPA 9315	417132		
92497117005	B-74	EPA 9315	417132		
92497117006	B-83	EPA 9315	417132		
92497117007	B-88	EPA 9315	417132		
92497117008	B-100	EPA 9315	417132		
92497117009	B-56	EPA 9315	417132		
92497117010	B-82	EPA 9315	417132		
92497117011	B-93	EPA 9315	417134		
92497117001	B-89	EPA 9320	415888		
92497117002	B-62	EPA 9320	417133		
92497117003	B-77	EPA 9320	417133		
92497117004	FB-3	EPA 9320	417133		
92497117005	B-74	EPA 9320	417133		
92497117006	B-83	EPA 9320	417133		
92497117007	B-88	EPA 9320	417133		
92497117008	B-100	EPA 9320	417133		
92497117009	B-56	EPA 9320	417133		
92497117010	B-82	EPA 9320	417133		
92497117011	B-93	EPA 9320	417135		
92497117001	B-89	Total Radium Calculation	418331		
92497117002	B-62	Total Radium Calculation	419143		
92497117003	B-77	Total Radium Calculation	419143		
92497117004	FB-3	Total Radium Calculation	419143		
92497117005	B-74	Total Radium Calculation	419143		
92497117006	B-83	Total Radium Calculation	419143		
92497117007	B-88	Total Radium Calculation	419143		
92497117008	B-100	Total Radium Calculation	419143		
92497117009	B-56	Total Radium Calculation	419145		
92497117010	B-82	Total Radium Calculation	419145		
92497117011	B-93	Total Radium Calculation	419262		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Rec

WO#: 92497117

Client Name: GPA POWER



92497117

Courier: Fed Ex UPS USPS Client Commercial Pace On

Tracking #: _____

Proj. Due Date: _____
Proj. Name: _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Packing Material: Bubble Wrap Bubble Bags None E-Over ZIPLOC

Thermometer Used THE 211 Type of Ice: Blue None Samples on ice, cooling process has begun

Cooler Temperature 1.0

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents KCW

Temp should be above freezing to 4°C

Comments:

Chain of Custody Present:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	1.	
Chain of Custody Filled Out:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	2.	
Chain of Custody Relinquished:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	3.	
Sampler Name & Signature on COC:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	4.	
Samples Arrived within Hold Time:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	5.	
Short Hold Time Analysis (<12hrs):	<u>Yes</u> <u>Yes</u> <u>Yes</u>	6.	
Rush Turn Around Time Requested:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	7.	
Sufficient Volume:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	8.	
Correct Containers Used:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	9.	
-Pace Containers Used:	<u>Yes</u> <u>Yes</u> <u>Yes</u>		
Containers Intact:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	10.	
Filtered volume received for Dissolved tests	<u>Yes</u> <u>Yes</u> <u>Yes</u>	11.	
Sample Labels match COC:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	12.	
-Includes date/time/ID/Analysis Matrix: <u>WT</u>			
All containers needing preservation have been checked.	<u>Yes</u> <u>Yes</u> <u>Yes</u>	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<u>Yes</u> <u>Yes</u> <u>Yes</u>		
exceptions: VOA, volilin, TOC, OMS, in-ORO (water)	<u>Yes</u> <u>Yes</u>	initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	14.	
Headspace in VOA Vials (>6mm)	<u>Yes</u> <u>Yes</u> <u>Yes</u>	15.	
Trip Blank Present:	<u>Yes</u> <u>Yes</u> <u>Yes</u>	16.	
Trip Blank Custody Seals Present:	<u>Yes</u> <u>Yes</u> <u>Yes</u>		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

F-ALLC003rev 3, 11 September 2008



Document Name:
Bottle Identification Form (BIF)
Document No.:
F-CAR-01-043-Rev.00

Document Issued: March 14, 2019
Page 1 of 1
Issuing Authority:
Pace Analytical

WO#: 92497117

Project #

PH: KLR1

Due Date: 10/15/20

CLIENT: GR-CR Power

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

Optional: VOA, Coliform, TOC, Oil and Grease, ORO/SOLs (water) DOC, LLMF

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

Matrix	Method	1	2	3	4	5	6	7	8	9	10	11	12
	BP46-125 ml Plastic Unpreserved (N/A) (D-1)	/	/	/	/	/	/	/	/	/	/	/	/
	BP70-250 ml Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP10-500 ml Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP10-1 liter Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP40-125 ml Plastic H2SO4 (pH < 2) (D-1)	/	/	/	/	/	/	/	/	/	/	/	/
	BP26-250 ml plastic HNO3 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	BP40-125 ml Plastic 2N Acetic & HClO4 (D-1)	/	/	/	/	/	/	/	/	/	/	/	/
	BP40-125 ml Plastic HClO4 (pH < 1) (D-1)	/	/	/	/	/	/	/	/	/	/	/	/
	WQ20-500-sterilized Glass jar Unpreserved	/	/	/	/	/	/	/	/	/	/	/	/
	AG10-1 liter Amber Unpreserved (N/A) (D-1)	/	/	/	/	/	/	/	/	/	/	/	/
	AG20-1 liter Amber HCl (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AG20-150 ml Amber Unpreserved (N/A) (D-1)	/	/	/	/	/	/	/	/	/	/	/	/
	AG20-150 ml Amber H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AG20-250 ml Amber H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AG20(250 ml)-250 ml Amber HNO3 (N/A)(D-1)	/	/	/	/	/	/	/	/	/	/	/	/
	OC20-40 ml VOA HCl (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO20-40 ml VOA H2SO4 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO20-40 ml VOA HClO4 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO20-40 ml VOA HNO3 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO20 (3 vials per 400-2000 in (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO20 (3 vials per 400-2000 in (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP21-125 ml Sterile Plastic (N/A - 146)	/	/	/	/	/	/	/	/	/	/	/	/
	BP21-125 ml Sterile Plastic (N/A - 146)	/	/	/	/	/	/	/	/	/	/	/	/
	BP24-250 ml Plastic preservative (N/A) (D-1)	/	/	/	/	/	/	/	/	/	/	/	/
	AG20-150 ml Amber Unpreserved glass (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO20-40 ml Substratum vials (N/A)	/	/	/	/	/	/	/	/	/	/	/	/

BRIN - Radium

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 Bureau of Certification of Out of Hold, Incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTOMER / Analytical Request Document

The Chain-of-Customer is a critical component of an event which must be carefully accounted

[Handwritten Signature]

Section 1 Requesting Agency Information		Section 2 Requesting Agency Information		Section 3 Requesting Agency Information	
Agency Name	NY State Police	Request Type	Investigation	Request Number	100-11111
Requesting Officer	Officer [Name]	Requesting Agency	New York State Police	Requesting Agency	New York State Police
Requesting Agency	New York State Police	Requesting Agency	New York State Police	Requesting Agency	New York State Police
Requesting Agency	New York State Police	Requesting Agency	New York State Police	Requesting Agency	New York State Police
Requesting Agency	New York State Police	Requesting Agency	New York State Police	Requesting Agency	New York State Police
Requesting Agency	New York State Police	Requesting Agency	New York State Police	Requesting Agency	New York State Police
Requesting Agency	New York State Police	Requesting Agency	New York State Police	Requesting Agency	New York State Police
Requesting Agency	New York State Police	Requesting Agency	New York State Police	Requesting Agency	New York State Police
Requesting Agency	New York State Police	Requesting Agency	New York State Police	Requesting Agency	New York State Police

ITEM #	SAMPLE ID	DATE	TIME	LOCATION	ANALYSIS						ANALYST
					PCP COMPONENT	THC COMPONENT	COCOAINE COMPONENT	MARIJUANA COMPONENT	AMPHETAMINE COMPONENT	OTHER COMPONENT	
1	100-11111-1	10/10/2018	10:30 AM	100-11111-1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
2	100-11111-2	10/10/2018	11:00 AM	100-11111-2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
3	100-11111-3	10/10/2018	11:30 AM	100-11111-3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
4	100-11111-4	10/10/2018	12:00 PM	100-11111-4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
5	100-11111-5	10/10/2018	12:30 PM	100-11111-5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
6	100-11111-6	10/10/2018	13:00 PM	100-11111-6	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
7	100-11111-7	10/10/2018	13:30 PM	100-11111-7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
8	100-11111-8	10/10/2018	14:00 PM	100-11111-8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
9	100-11111-9	10/10/2018	14:30 PM	100-11111-9	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
10	100-11111-10	10/10/2018	15:00 PM	100-11111-10	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
11	100-11111-11	10/10/2018	15:30 PM	100-11111-11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
12	100-11111-12	10/10/2018	16:00 PM	100-11111-12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
13	100-11111-13	10/10/2018	16:30 PM	100-11111-13	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]
14	100-11111-14	10/10/2018	17:00 PM	100-11111-14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	[Handwritten]

Signed by: [Handwritten Signature]

Date: 10/11/18

Handwritten 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 Requester Information	Section 2 Requester Contact Information	Section 3 Requester Signature
Requester Name: <i>[Handwritten]</i>	Requester Title: <i>[Handwritten]</i>	Requester Signature: <i>[Handwritten]</i>
Requester Address: <i>[Handwritten]</i>	Requester Phone: <i>[Handwritten]</i>	Requester Email: <i>[Handwritten]</i>
Requester City/State/Zip: <i>[Handwritten]</i>	Requester Fax: <i>[Handwritten]</i>	Requester Date: <i>[Handwritten]</i>
Requester Case No.: <i>[Handwritten]</i>	Requester Agency: <i>[Handwritten]</i>	Requester Division: <i>[Handwritten]</i>
Requester Contact: <i>[Handwritten]</i>	Requester Supervisor: <i>[Handwritten]</i>	Requester Date Recd: <i>[Handwritten]</i>
Requester Date Recd: <i>[Handwritten]</i>	Requester Date Recd: <i>[Handwritten]</i>	Requester Date Recd: <i>[Handwritten]</i>

ITEM #	SAMPLE ID	DATE	TIME	ANALYSIS	ANALYST	REMARKS	ANALYSIS		ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS
							ANALYSIS	ANALYSIS											
1	143	10/11/07	10:11	10/11/07	10:11	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07
2	143	10/11/07	10:11	10/11/07	10:11	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07
3	143	10/11/07	10:11	10/11/07	10:11	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07	10/11/07
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Requested by: *[Handwritten]*
 Date: *[Handwritten]*
 Time: *[Handwritten]*
 Signature: *[Handwritten]*

2000000

CHAIN-OF-CUSTODY / Analytical Request Document
 The Original Copy is a UFGA DOCUMENT. All subsequent files must be identical accuracy.

Page 1 of 1

Section A: Request/Chain of Custody

Request No: 2000000 Request Date: 11/11/2011

Requester: John Doe Requester Title: Analyst

Requesting Agency: State Police Requesting Agency Address: 123 Main St, Anytown, CA 90210

Requesting Agency Contact: John Doe Requesting Agency Phone: 555-555-5555

Requesting Agency Fax: 555-555-5555

Requesting Agency Email: john.doe@statepolice.ca.gov

Requesting Agency Website: www.statepolice.ca.gov

Requesting Agency Logo: [Logo]

Requesting Agency Signature: [Signature]

Requesting Agency Date: 11/11/2011

Section B: Request/Chain of Custody

Request No: 2000000 Request Date: 11/11/2011

Requester: John Doe Requester Title: Analyst

Requesting Agency: State Police Requesting Agency Address: 123 Main St, Anytown, CA 90210

Requesting Agency Contact: John Doe Requesting Agency Phone: 555-555-5555

Requesting Agency Fax: 555-555-5555

Requesting Agency Email: john.doe@statepolice.ca.gov

Requesting Agency Website: www.statepolice.ca.gov

Requesting Agency Logo: [Logo]

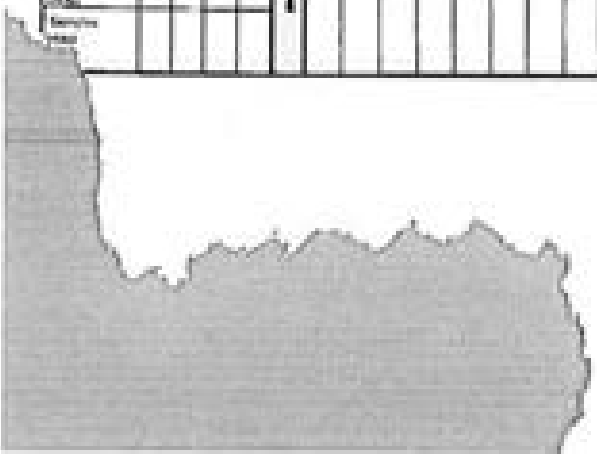
Requesting Agency Signature: [Signature]

Requesting Agency Date: 11/11/2011

ITEM #	SAMPLE ID	Description of Sample	Quantity	Unit	Container	Preservation	Analysis Test		Remarks (Include UFGA)
							Y/N	U	
1	8-74	100% Cotton T-shirt	1	PC	White	None	Wash	Y	Wash
2	8-80	100% Cotton T-shirt	1	PC	White	None	Wash	Y	Wash
3	8-81	100% Cotton T-shirt	1	PC	White	None	Wash	Y	Wash
4	8-82	100% Cotton T-shirt	1	PC	White	None	Wash	Y	Wash
5	8-83	100% Cotton T-shirt	1	PC	White	None	Wash	Y	Wash
6	8-84	100% Cotton T-shirt	1	PC	White	None	Wash	Y	Wash
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Signature of Chain of Custody: [Signature]

Date: 11/11/2011





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

Page 1 of 2

Section A Analytical Request Information	Section B Analytical Request Information	Section C Sample Information
Requester Name: [Blank] Requester Title: [Blank] Requester Phone: [Blank] Requester Email: [Blank]	Requester Name: [Blank] Requester Title: [Blank] Requester Phone: [Blank] Requester Email: [Blank]	Sample ID: [Blank] Sample Name: [Blank] Sample Type: [Blank] Sample Quantity: [Blank]
Request Date: [Blank]	Request Date: [Blank]	Request Date: [Blank]

ITEM #	SAMPLE ID	ANALYSIS REQUESTED	ANALYSIS METHOD	ANALYSIS DATE	ANALYST	ANALYSIS RESULTS		REMARKS
						Y/N	VALUE	
1	100	...	...	...	...	Y	...	...
2	101	...	...	...	...	Y	...	...
3	102	...	...	...	...	Y	...	...
4	103	...	...	...	...	Y	...	...
5	104	...	...	...	...	Y	...	...
6	105	...	...	...	...	Y	...	...
7	106	...	...	...	...	Y	...	...
8	107	...	...	...	...	Y	...	...
9	108	...	...	...	...	Y	...	...
10	109	...	...	...	...	Y	...	...
11	110	...	...	...	...	Y	...	...
12	111	...	...	...	...	Y	...	...
13	112	...	...	...	...	Y	...	...
14	113	...	...	...	...	Y	...	...
15	114	...	...	...	...	Y	...	...
16	115	...	...	...	...	Y	...	...

Signature: [Signature]
 Date: 02-27-20
 Title: [Blank]

Quality Control Sample Performance Assessment

Rock Hill, SC
 29730

City
 Area
 County
 State

Sample ID	Sample Name	Sample Type
1
2
3
4
5
6
7
8
9
10

Sample ID	Sample Name	Sample Type	Sample Date
1
2
3
4
5
6
7
8
9
10

Sample ID	Sample Name	Sample Type	Sample Date
1
2
3
4
5
6
7
8
9
10

Sample Performance Report: [Sample Name]

Sample ID	Sample Name	Sample Type	Sample Date
1
2
3
4
5
6
7
8
9
10

Sample ID	Sample Name	Sample Type	Sample Date
1
2
3
4
5
6
7
8
9
10

All Department of Agriculture personnel are required to adhere to the following quality control sample performance criteria:

Comments:

APPROVED: [Signature]

Quality Control Sample Performance Assessment

2020-2021

Year
 2020
 2021
 2022
 2023

Sample Description	2020	2021
...

Sample Description	2020	2021	2022
...

Sample Description	2020	2021	2022	2023
...

2020-2021

Sample Description	2020	2021
...

Sample Description	2020	2021
...

...

Signature

Signature

Quality Control Sample Performance Assessment

Page 32 of 39

Date: 10/15/2010
 Page: 32 of 39
 User: [Name]

Sample ID	Result
101	Pass
102	Pass
103	Pass
104	Pass
105	Pass
106	Pass
107	Pass
108	Pass
109	Pass
110	Pass

Sample ID	Result	Notes
111	Pass	
112	Pass	
113	Pass	
114	Pass	
115	Pass	
116	Pass	
117	Pass	
118	Pass	
119	Pass	
120	Pass	

Sample ID	Result	Notes
121	Pass	
122	Pass	
123	Pass	
124	Pass	
125	Pass	
126	Pass	
127	Pass	
128	Pass	
129	Pass	
130	Pass	

All samples passed the quality control test. No further action is required.

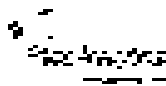
Quality Control Sample Performance Assessment

Sample ID	Result	Notes
131	Pass	
132	Pass	
133	Pass	
134	Pass	
135	Pass	
136	Pass	
137	Pass	
138	Pass	
139	Pass	
140	Pass	

Sample ID	Result	Notes
141	Pass	
142	Pass	
143	Pass	
144	Pass	
145	Pass	
146	Pass	
147	Pass	
148	Pass	
149	Pass	
150	Pass	

All samples passed the quality control test. No further action is required.

محمد بن عبد الرحمن
 محمد بن عبد الرحمن
 محمد بن عبد الرحمن



Quality Control Sample Performance Assessment

Analysis of Monitoring Data at the Monitoring Station

Year	Sample Size
Analysis Year	10/14/2018
Analysis Month	10/2018

Parameter	Sample Size	Sample Size
Analysis Year	10/2018	10/2018
Analysis Month	10/2018	10/2018
Analysis Day	10/2018	10/2018
Analysis Time	10/2018	10/2018
Analysis Location	10/2018	10/2018
Analysis Method	10/2018	10/2018

Parameter	Sample Size	Sample Size	Sample Size
Analysis Year	10/2018	10/2018	10/2018
Analysis Month	10/2018	10/2018	10/2018
Analysis Day	10/2018	10/2018	10/2018
Analysis Time	10/2018	10/2018	10/2018
Analysis Location	10/2018	10/2018	10/2018
Analysis Method	10/2018	10/2018	10/2018
Analysis Instrument	10/2018	10/2018	10/2018
Analysis Operator	10/2018	10/2018	10/2018
Analysis Station	10/2018	10/2018	10/2018
Analysis Date	10/2018	10/2018	10/2018
Analysis Time	10/2018	10/2018	10/2018
Analysis Location	10/2018	10/2018	10/2018
Analysis Method	10/2018	10/2018	10/2018

Parameter	Sample Size	Sample Size	Sample Size
Analysis Year	10/2018	10/2018	10/2018
Analysis Month	10/2018	10/2018	10/2018
Analysis Day	10/2018	10/2018	10/2018
Analysis Time	10/2018	10/2018	10/2018
Analysis Location	10/2018	10/2018	10/2018
Analysis Method	10/2018	10/2018	10/2018
Analysis Instrument	10/2018	10/2018	10/2018
Analysis Operator	10/2018	10/2018	10/2018
Analysis Station	10/2018	10/2018	10/2018
Analysis Date	10/2018	10/2018	10/2018
Analysis Time	10/2018	10/2018	10/2018
Analysis Location	10/2018	10/2018	10/2018
Analysis Method	10/2018	10/2018	10/2018

10/14/2018 10:14:20 AM

10/14/2018

10/14/2018 10:14:20 AM

Parameter	Sample Size	Sample Size
Analysis Year	10/2018	10/2018
Analysis Month	10/2018	10/2018
Analysis Day	10/2018	10/2018
Analysis Time	10/2018	10/2018
Analysis Location	10/2018	10/2018
Analysis Method	10/2018	10/2018
Analysis Instrument	10/2018	10/2018
Analysis Operator	10/2018	10/2018
Analysis Station	10/2018	10/2018
Analysis Date	10/2018	10/2018
Analysis Time	10/2018	10/2018
Analysis Location	10/2018	10/2018
Analysis Method	10/2018	10/2018

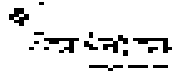
Parameter	Sample Size	Sample Size	Sample Size
Analysis Year	10/2018	10/2018	10/2018
Analysis Month	10/2018	10/2018	10/2018
Analysis Day	10/2018	10/2018	10/2018
Analysis Time	10/2018	10/2018	10/2018
Analysis Location	10/2018	10/2018	10/2018
Analysis Method	10/2018	10/2018	10/2018
Analysis Instrument	10/2018	10/2018	10/2018
Analysis Operator	10/2018	10/2018	10/2018
Analysis Station	10/2018	10/2018	10/2018
Analysis Date	10/2018	10/2018	10/2018
Analysis Time	10/2018	10/2018	10/2018
Analysis Location	10/2018	10/2018	10/2018
Analysis Method	10/2018	10/2018	10/2018

10/14/2018

10/14/2018

10/14/2018

Quality Control Sample Performance Assessment



Date: 12/15/2010
 By: [Signature]
 Title: [Title]

Item	Pass/Fail
1. Sample ID	Pass
2. Labeling	Pass
3. Chain of Custody	Pass
4. Storage	Pass
5. Handling	Pass
6. Analysis	Pass
7. Reporting	Pass

Item	Pass/Fail	Pass/Fail
1. Sample ID	Pass	Pass
2. Labeling	Pass	Pass
3. Chain of Custody	Pass	Pass
4. Storage	Pass	Pass
5. Handling	Pass	Pass
6. Analysis	Pass	Pass
7. Reporting	Pass	Pass
8. Archiving	Pass	Pass
9. Distribution	Pass	Pass
10. Final Review	Pass	Pass

Item	Pass/Fail	Pass/Fail
1. Sample ID	Pass	Pass
2. Labeling	Pass	Pass
3. Chain of Custody	Pass	Pass
4. Storage	Pass	Pass
5. Handling	Pass	Pass
6. Analysis	Pass	Pass
7. Reporting	Pass	Pass
8. Archiving	Pass	Pass
9. Distribution	Pass	Pass
10. Final Review	Pass	Pass

All elements of quality control are satisfactory. There are no other comments or actions required.

Comments:

Quality Control Sample Performance Assessment

Item	Pass/Fail
1. Sample ID	Pass
2. Labeling	Pass
3. Chain of Custody	Pass
4. Storage	Pass
5. Handling	Pass
6. Analysis	Pass
7. Reporting	Pass
8. Archiving	Pass
9. Distribution	Pass
10. Final Review	Pass

Item	Pass/Fail
1. Sample ID	Pass
2. Labeling	Pass
3. Chain of Custody	Pass
4. Storage	Pass
5. Handling	Pass
6. Analysis	Pass
7. Reporting	Pass
8. Archiving	Pass
9. Distribution	Pass
10. Final Review	Pass

Handwritten signature

DATE: 12/15/2010

Quality Control Sample Performance Assessment



Test
 Date: 11/20/13
 Location: 10000 10th Ave

Secondary Water Sample Performance

Test	Value
Chlorine Residual	0.25
Chlorine	0.25
Chlorine Demand	0.00
Chlorine Demand (at 15 min)	0.00
Chlorine Demand (at 30 min)	0.00
Chlorine Demand (at 45 min)	0.00
Chlorine Demand (at 60 min)	0.00

Sample ID	Parameter	Value	Unit
10000 10th Ave	Chlorine Residual	0.25	mg/L
10000 10th Ave	Chlorine	0.25	mg/L
10000 10th Ave	Chlorine Demand	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 15 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 30 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 45 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 60 min)	0.00	mg/L

Sample ID	Parameter	Value	Unit
10000 10th Ave	Chlorine Residual	0.25	mg/L
10000 10th Ave	Chlorine	0.25	mg/L
10000 10th Ave	Chlorine Demand	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 15 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 30 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 45 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 60 min)	0.00	mg/L

Sample ID	Parameter	Value	Unit
10000 10th Ave	Chlorine Residual	0.25	mg/L
10000 10th Ave	Chlorine	0.25	mg/L
10000 10th Ave	Chlorine Demand	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 15 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 30 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 45 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 60 min)	0.00	mg/L

Sample ID	Parameter	Value	Unit
10000 10th Ave	Chlorine Residual	0.25	mg/L
10000 10th Ave	Chlorine	0.25	mg/L
10000 10th Ave	Chlorine Demand	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 15 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 30 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 45 min)	0.00	mg/L
10000 10th Ave	Chlorine Demand (at 60 min)	0.00	mg/L

All test results are within the required range for this sample.

Checked

11/20/13
 10000 10th Ave

11/20/13

Quality Control Sample Performance Assessment



Site: 100-100000-00000
 Date: 10/1/2000
 Analyst: [Signature]

Method: Method Name: Method ID: Method Version: Method Code:

Method Name	Method ID	Method Version	Method Code
Method Name	Method ID	Method Version	Method Code
Method Name	Method ID	Method Version	Method Code

Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code

Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code

Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code

Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code
Sample Name	Sample ID	Sample Version	Sample Code

Method Name: Method ID: Method Version: Method Code:

Method Name: Method ID: Method Version: Method Code:

[Handwritten Signature]



Quality Control Sample Performance Assessment

Annual Most Recently Done QCC Sample Report of 2016

Type of Sample	Sample Code	Sample Date	Sample Location	Sample Results		Remarks
				Actual	Standard	
<p>1.750 Daily Grab Sample</p> <p>Chemical Oxygen Demand (COD) - mg/l Chloride (CL) - mg/l Dissolved Oxygen (DO) - mg/l Total Dissolved Solids (TDS) - mg/l Total Suspended Solids (TSS) - mg/l Turbidity - NTU</p>						
<p>2.150 Daily Grab Sample</p> <p>Ammonia Nitrogen (NH₄-N) - mg/l Nitrate Nitrogen (NO₃-N) - mg/l Nitrite Nitrogen (NO₂-N) - mg/l Total Nitrogen (TN) - mg/l Total Phosphorus (TP) - mg/l Total Kjeldahl Nitrogen (TKN) - mg/l Total Organic Carbon (TOC) - mg/l Total Organic Nitrogen (TON) - mg/l Total Organic Phosphorus (TOP) - mg/l Total Organic Nitrogen (TON) - mg/l Total Organic Phosphorus (TOP) - mg/l Total Organic Carbon (TOC) - mg/l Total Organic Nitrogen (TON) - mg/l Total Organic Phosphorus (TOP) - mg/l</p>						
<p>3.150 Daily Grab Sample</p> <p>Ammonia Nitrogen (NH₄-N) - mg/l Nitrate Nitrogen (NO₃-N) - mg/l Nitrite Nitrogen (NO₂-N) - mg/l Total Nitrogen (TN) - mg/l Total Phosphorus (TP) - mg/l Total Kjeldahl Nitrogen (TKN) - mg/l Total Organic Carbon (TOC) - mg/l Total Organic Nitrogen (TON) - mg/l Total Organic Phosphorus (TOP) - mg/l Total Organic Carbon (TOC) - mg/l Total Organic Nitrogen (TON) - mg/l Total Organic Phosphorus (TOP) - mg/l</p>						

Handwritten signature and initials in the left margin of the table area.

KLWPL is an ISO 9001:2015 certified organization. This report is prepared in accordance with the standard requirements of the ISO 9001:2015. All data are based on the most recent data available.

APPENDIX A

**Laboratory Analytical Data
March and April 2021**



May 13, 2021

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

RE: Project: DGWC WELLS RADS
Pace Project No.: 92524825

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

Revision 1 - This report replaces the April 14, 2021 report. This project was revised on April 22, 2021 to reflect the 226/228 calculation missing from one sample. (Greensburg, PA)

Revision 2 - This report replaces the April 22, 2021 report. This project was revised on May 3, 2021 in order to remove Sample 92524825025 from report as per client request.

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

Sincerely,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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.



REPORT OF LABORATORY ANALYSIS

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

May 13, 2021
Page 2

cc: Tim Richards, Golder Associates - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: DGWC WELLS RADS
Pace Project No.: 92524825

Pace Analytical Services Pennsylvania

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: DGWC WELLS RADS
Pace Project No.: 92524825

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524825001	DGWC-4	Water	03/01/21 16:40	03/02/21 08:45
92524825002	DGWC-2	Water	03/02/21 10:38	03/03/21 09:10
92524825003	DGWC-5	Water	03/02/21 10:15	03/03/21 09:10
92524825004	DGWC-8	Water	03/02/21 16:15	03/03/21 09:10
92524825005	DGWC-9	Water	03/02/21 15:23	03/03/21 09:10
92524825006	DGWC-11	Water	03/02/21 16:20	03/03/21 09:10
92524825007	DGWC-13	Water	03/02/21 14:37	03/03/21 09:10
92524825008	DGWC-14	Water	03/02/21 11:44	03/03/21 09:10
92524825009	DGWC-15	Water	03/02/21 10:22	03/03/21 09:10
92524825010	DGWC-19	Water	03/02/21 13:30	03/03/21 09:10
92524825011	DGWC-20	Water	03/02/21 16:13	03/03/21 09:10
92524825012	DUP-1	Water	03/02/21 00:00	03/03/21 09:10
92524825013	FB-1	Water	03/02/21 10:32	03/03/21 09:10
92524825014	EB-1	Water	03/02/21 10:45	03/03/21 09:10
92524825016	DGWC-12	Water	03/03/21 12:20	03/04/21 09:00
92524825017	DGWC-17	Water	03/03/21 16:55	03/04/21 09:00
92524825018	DGWC-21	Water	03/03/21 12:56	03/04/21 09:00
92524825019	DGWC-22	Water	03/03/21 14:26	03/04/21 09:00
92524825020	DGWC-23	Water	03/03/21 16:22	03/04/21 09:00
92524825021	DGWC-42	Water	03/03/21 14:09	03/04/21 09:00
92524825022	DGWC-47	Water	03/03/21 11:45	03/04/21 09:00
92524825023	DGWC-48	Water	03/03/21 10:07	03/04/21 09:00
92524825024	DGWC-10	Water	03/04/21 13:20	03/05/21 16:16

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92524825001	DGWC-4	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92524825002	DGWC-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825003	DGWC-5	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825004	DGWC-8	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825005	DGWC-9	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825006	DGWC-11	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825007	DGWC-13	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825008	DGWC-14	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825009	DGWC-15	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825010	DGWC-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825011	DGWC-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825012	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825013	FB-1	EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: DGWC WELLS RADS
 Pace Project No.: 92524825

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92524825014	EB-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92524825016	DGWC-12	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825017	DGWC-17	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92524825018	DGWC-21	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92524825019	DGWC-22	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825020	DGWC-23	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92524825021	DGWC-42	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92524825022	DGWC-47	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825023	DGWC-48	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92524825024	DGWC-10	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-4 Lab ID: 92524825001 Collected: 03/01/21 16:40 Received: 03/02/21 08:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.778 ± 0.278 (0.319) C:93% T:NA	pCi/L	03/15/21 09:10	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.273 ± 0.431 (0.933) C:73% T:88%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.05 ± 0.709 (1.25)	pCi/L	03/19/21 14:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Sample: DGWC-2 **Lab ID: 92524825002** Collected: 03/02/21 10:38 Received: 03/03/21 09:10 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.417 ± 0.267 (0.431) C:81% T:NA	pCi/L	03/26/21 10:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.12 ± 0.719 (1.36) C:75% T:75%	pCi/L	03/25/21 18:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.54 ± 0.986 (1.79)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-5 Lab ID: 92524825003 Collected: 03/02/21 10:15 Received: 03/03/21 09:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.303 ± 0.258 (0.474) C:71% T:NA	pCi/L	03/26/21 10:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.668 ± 0.530 (1.05) C:75% T:84%	pCi/L	03/25/21 18:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.971 ± 0.788 (1.52)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS
 Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.204 ± 0.192 (0.364) C:92% T:NA	pCi/L	03/26/21 10:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.547 ± 0.478 (0.973) C:72% T:74%	pCi/L	03/31/21 11:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.751 ± 0.670 (1.34)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-9 Lab ID: 92524825005 Collected: 03/02/21 15:23 Received: 03/03/21 09:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.603 ± 0.312 (0.464) C:86% T:NA	pCi/L	03/26/21 10:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.683 ± 0.505 (0.977) C:75% T:85%	pCi/L	03/25/21 18:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.29 ± 0.817 (1.44)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-11 Lab ID: 92524825006 Collected: 03/02/21 16:20 Received: 03/03/21 09:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.145 ± 0.211 (0.461) C:78% T:NA	pCi/L	03/26/21 10:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.521 ± 0.389 (0.761) C:69% T:84%	pCi/L	03/25/21 11:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.666 ± 0.600 (1.22)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Sample: DGWC-13 **Lab ID: 92524825007** Collected: 03/02/21 14:37 Received: 03/03/21 09:10 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.328 ± 0.250 (0.433) C:76% T:NA	pCi/L	03/26/21 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.791 ± 0.410 (0.728) C:75% T:88%	pCi/L	03/25/21 11:23	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.12 ± 0.660 (1.16)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS
 Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-14 Lab ID: 92524825008 Collected: 03/02/21 11:44 Received: 03/03/21 09:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.293 ± 0.286 (0.565) C:69% T:NA	pCi/L	03/26/21 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.568 ± 0.381 (0.730) C:69% T:91%	pCi/L	03/25/21 11:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.861 ± 0.667 (1.30)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-15 Lab ID: 92524825009 Collected: 03/02/21 10:22 Received: 03/03/21 09:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0977 ± 0.188 (0.433) C:74% T:NA	pCi/L	03/26/21 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.501 ± 0.324 (0.610) C:74% T:98%	pCi/L	03/25/21 11:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.599 ± 0.512 (1.04)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.140 ± 0.287 (0.664) C:67% T:NA	pCi/L	03/26/21 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.635 ± 0.404 (0.760) C:72% T:85%	pCi/L	03/25/21 11:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.775 ± 0.691 (1.42)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-20 Lab ID: 92524825011 Collected: 03/02/21 16:13 Received: 03/03/21 09:10 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.281 ± 0.238 (0.441) C:88% T:NA	pCi/L	03/26/21 09:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.48 ± 0.523 (0.753) C:72% T:85%	pCi/L	03/25/21 11:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.76 ± 0.761 (1.19)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DUP-1 Lab ID: 92524825012 Collected: 03/02/21 00:00 Received: 03/03/21 09:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.56 ± 0.511 (0.606) C:86% T:NA	pCi/L	03/26/21 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0935 ± 0.295 (0.665) C:74% T:91%	pCi/L	03/25/21 11:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.65 ± 0.806 (1.27)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-1 Lab ID: 92524825013 Collected: 03/02/21 10:32 Received: 03/03/21 09:10 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.752 ± 0.433 (0.738) C:65% T:NA	pCi/L	03/26/21 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.459 ± 0.313 (0.590) C:80% T:92%	pCi/L	03/25/21 14:37	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.21 ± 0.746 (1.33)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Sample: EB-1 **Lab ID: 92524825014** Collected: 03/02/21 10:45 Received: 03/03/21 09:10 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0443 ± 0.157 (0.399) C:71% T:NA	pCi/L	03/26/21 09:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.368 ± 0.384 (0.793) C:78% T:78%	pCi/L	03/25/21 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.412 ± 0.541 (1.19)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-12 Lab ID: 92524825016 Collected: 03/03/21 12:20 Received: 03/04/21 09:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.648 ± 0.500 (1.02) C:78% T:NA	pCi/L	03/26/21 09:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.20 ± 0.489 (0.778) C:73% T:92%	pCi/L	03/25/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.85 ± 0.989 (1.80)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-17 Lab ID: 92524825017 Collected: 03/03/21 16:55 Received: 03/04/21 09:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.397 ± 0.332 (0.670) C:98% T:NA	pCi/L	03/26/21 09:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.263 ± 0.342 (0.728) C:76% T:93%	pCi/L	03/25/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.660 ± 0.674 (1.40)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-21 Lab ID: 92524825018 Collected: 03/03/21 12:56 Received: 03/04/21 09:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0180 ± 0.201 (0.547) C:73% T:NA	pCi/L	03/26/21 09:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.248 ± 0.345 (0.739) C:76% T:87%	pCi/L	03/25/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.248 ± 0.546 (1.29)	pCi/L	03/31/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-22 Lab ID: 92524825019 Collected: 03/03/21 14:26 Received: 03/04/21 09:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0221 ± 0.223 (0.599) C:73% T:NA	pCi/L	03/26/21 10:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.547 ± 0.404 (0.790) C:74% T:88%	pCi/L	03/25/21 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.547 ± 0.627 (1.39)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-23 Lab ID: 92524825020 Collected: 03/03/21 16:22 Received: 03/04/21 09:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.354 ± 0.235 (0.372) C:87% T:NA	pCi/L	03/26/21 09:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.695 ± 0.397 (0.726) C:75% T:93%	pCi/L	03/25/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.05 ± 0.632 (1.10)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-42 Lab ID: 92524825021 Collected: 03/03/21 14:09 Received: 03/04/21 09:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.165 ± 0.187 (0.376) C:87% T:NA	pCi/L	03/26/21 09:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.755 ± 0.407 (0.726) C:73% T:94%	pCi/L	03/25/21 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.920 ± 0.594 (1.10)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-47 Lab ID: 92524825022 Collected: 03/03/21 11:45 Received: 03/04/21 09:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.608 ± 0.382 (0.685) C:75% T:NA	pCi/L	03/26/21 09:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.660 ± 0.422 (0.793) C:74% T:84%	pCi/L	03/25/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.27 ± 0.804 (1.48)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-48 Lab ID: 92524825023 Collected: 03/03/21 10:07 Received: 03/04/21 09:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.478 ± 0.298 (0.482) C:74% T:NA	pCi/L	03/26/21 09:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.936 ± 0.449 (0.767) C:75% T:88%	pCi/L	03/25/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.41 ± 0.747 (1.25)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWC-10 Lab ID: 92524825024 Collected: 03/04/21 13:20 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.362 ± 0.265 (0.473) C:90% T:NA	pCi/L	03/26/21 09:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.12 ± 0.512 (0.867) C:78% T:81%	pCi/L	03/25/21 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.48 ± 0.777 (1.34)	pCi/L	04/01/21 12:53	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: DGWC WELLS RADS
 Pace Project No.: 92524825

QC Batch: 439254 Analysis Method: EPA 9315
 QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
 Laboratory: Pace Analytical Services - Greensburg
 Associated Lab Samples: 92524825006, 92524825007, 92524825008, 92524825009, 92524825010, 92524825011, 92524825012,
 92524825013, 92524825014, 92524825016, 92524825017, 92524825018, 92524825019, 92524825020,
 92524825021, 92524825022, 92524825023

METHOD BLANK: 2120782 Matrix: Water
 Associated Lab Samples: 92524825006, 92524825007, 92524825008, 92524825009, 92524825010, 92524825011, 92524825012,
 92524825013, 92524825014, 92524825016, 92524825017, 92524825018, 92524825019, 92524825020,
 92524825021, 92524825022, 92524825023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.134 ± 0.193 (0.418) C:81% T:NA	pCi/L	03/26/21 09:03	

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: DGWC WELLS RADS
 Pace Project No.: 92524825

QC Batch:	439289	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92524825006, 92524825007, 92524825008, 92524825009, 92524825010, 92524825011, 92524825012, 92524825013, 92524825014, 92524825016, 92524825017, 92524825018, 92524825019, 92524825020, 92524825021, 92524825022, 92524825023

METHOD BLANK: 2120846 Matrix: Water

Associated Lab Samples: 92524825006, 92524825007, 92524825008, 92524825009, 92524825010, 92524825011, 92524825012, 92524825013, 92524825014, 92524825016, 92524825017, 92524825018, 92524825019, 92524825020, 92524825021, 92524825022, 92524825023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.155 ± 0.270 (0.589) C:71% T:101%	pCi/L	03/25/21 11:03	

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: DGWC WELLS RADS

Pace Project No.: 92524825

QC Batch:	439252	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92524825002, 92524825003, 92524825004, 92524825005, 92524825024

METHOD BLANK: 2120781 Matrix: Water

Associated Lab Samples: 92524825002, 92524825003, 92524825004, 92524825005, 92524825024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.113 ± 0.316 (0.862) C:65% T:NA	pCi/L	03/26/21 09:14	

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: DGWC WELLS RADS

Pace Project No.: 92524825

QC Batch: 437599

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92524825001

METHOD BLANK: 2112389

Matrix: Water

Associated Lab Samples: 92524825001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00470 ± 0.0712 (0.214) C:85% T:NA	pCi/L	03/15/21 09:18	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

QC Batch: 440029

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2124494

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.131 ± 0.269 (0.653) C:79% T:93%	pCi/L	03/30/21 12:34	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

QC Batch: 437641

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92524825001

METHOD BLANK: 2112538

Matrix: Water

Associated Lab Samples: 92524825001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.312 ± 0.330 (0.686) C:82% T:90%	pCi/L	03/15/21 16:07	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: DGWC WELLS RADS

Pace Project No.: 92524825

QC Batch:	439287	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92524825002, 92524825003, 92524825004, 92524825005, 92524825024

METHOD BLANK: 2120842 Matrix: Water

Associated Lab Samples: 92524825002, 92524825003, 92524825004, 92524825005, 92524825024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.803 ± 0.463 (0.841) C:75% T:71%	pCi/L	03/25/21 15:49	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: DGWC WELLS RADS

Pace Project No.: 92524825

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DGWC WELLS RADS
 Pace Project No.: 92524825

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524825001	DGWC-4	EPA 9315	437599		
92524825002	DGWC-2	EPA 9315	439252		
92524825003	DGWC-5	EPA 9315	439252		
92524825004	DGWC-8	EPA 9315	439252		
92524825005	DGWC-9	EPA 9315	439252		
92524825006	DGWC-11	EPA 9315	439254		
92524825007	DGWC-13	EPA 9315	439254		
92524825008	DGWC-14	EPA 9315	439254		
92524825009	DGWC-15	EPA 9315	439254		
92524825010	DGWC-19	EPA 9315	439254		
92524825011	DGWC-20	EPA 9315	439254		
92524825012	DUP-1	EPA 9315	439254		
92524825013	FB-1	EPA 9315	439254		
92524825014	EB-1	EPA 9315	439254		
92524825016	DGWC-12	EPA 9315	439254		
92524825017	DGWC-17	EPA 9315	439254		
92524825018	DGWC-21	EPA 9315	439254		
92524825019	DGWC-22	EPA 9315	439254		
92524825020	DGWC-23	EPA 9315	439254		
92524825021	DGWC-42	EPA 9315	439254		
92524825022	DGWC-47	EPA 9315	439254		
92524825023	DGWC-48	EPA 9315	439254		
92524825024	DGWC-10	EPA 9315	439252		
92524825001	DGWC-4	EPA 9320	437641		
92524825002	DGWC-2	EPA 9320	439287		
92524825003	DGWC-5	EPA 9320	439287		
92524825004	DGWC-8	EPA 9320	439287		
92524825005	DGWC-9	EPA 9320	439287		
92524825006	DGWC-11	EPA 9320	439289		
92524825007	DGWC-13	EPA 9320	439289		
92524825008	DGWC-14	EPA 9320	439289		
92524825009	DGWC-15	EPA 9320	439289		
92524825010	DGWC-19	EPA 9320	439289		
92524825011	DGWC-20	EPA 9320	439289		
92524825012	DUP-1	EPA 9320	439289		
92524825013	FB-1	EPA 9320	439289		
92524825014	EB-1	EPA 9320	439289		
92524825016	DGWC-12	EPA 9320	439289		
92524825017	DGWC-17	EPA 9320	439289		
92524825018	DGWC-21	EPA 9320	439289		
92524825019	DGWC-22	EPA 9320	439289		
92524825020	DGWC-23	EPA 9320	439289		
92524825021	DGWC-42	EPA 9320	439289		
92524825022	DGWC-47	EPA 9320	439289		
92524825023	DGWC-48	EPA 9320	439289		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DGWC WELLS RADS
 Pace Project No.: 92524825

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524825024	DGWC-10	EPA 9320	439287		
92524825001	DGWC-4	Total Radium Calculation	439586		
92524825002	DGWC-2	Total Radium Calculation	441252		
92524825003	DGWC-5	Total Radium Calculation	441252		
92524825004	DGWC-8	Total Radium Calculation	441392		
92524825005	DGWC-9	Total Radium Calculation	441252		
92524825006	DGWC-11	Total Radium Calculation	441252		
92524825007	DGWC-13	Total Radium Calculation	441252		
92524825008	DGWC-14	Total Radium Calculation	441252		
92524825009	DGWC-15	Total Radium Calculation	441252		
92524825010	DGWC-19	Total Radium Calculation	441252		
92524825011	DGWC-20	Total Radium Calculation	441252		
92524825012	DUP-1	Total Radium Calculation	441252		
92524825013	FB-1	Total Radium Calculation	441252		
92524825014	EB-1	Total Radium Calculation	441252		
92524825016	DGWC-12	Total Radium Calculation	441252		
92524825017	DGWC-17	Total Radium Calculation	441252		
92524825018	DGWC-21	Total Radium Calculation	441252		
92524825019	DGWC-22	Total Radium Calculation	441392		
92524825020	DGWC-23	Total Radium Calculation	441392		
92524825021	DGWC-42	Total Radium Calculation	441392		
92524825022	DGWC-47	Total Radium Calculation	441392		
92524825023	DGWC-48	Total Radium Calculation	441392		
92524825024	DGWC-10	Total Radium Calculation	441392		

REPORT OF LABORATORY ANALYSIS

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Document Name:
 New Job Creation Loan Package (Call)
 Open March 2003
 Loan # 92524831

Document Revised: October 28, 2002
 Page 2 of 3
 Lending Activities
 Pace Community Quality Office

Laundry facilities (washing machines):

- Ashburn Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Customer ID:
 Job #

Client Name: _____
 Project # **WON: 92524831**
 County: Guilford
 City: _____
 State: _____
 ZIP: _____
 Phone: _____



Currently in progress? Yes No
 In progress? Yes No

Special Order Items (including Corrugated) Yes No

Printing Method: Inkjet Laser Other Other

Special Order Items Yes No

Thermometer: All 234
 Type of box: Flat Box

Cooler Temp: _____
 Correction Factor: AS47% based on _____

Temperature above freezing in °C: _____
 Temperature above freezing in °F: _____

Cooler Temp Correction (FC): _____
 Lot/Kit Required? Yes No

Can sample container be re-used? Yes with a new label? No Yes
 Can sample container be re-used? Yes with a new label? No Yes

Item	Yes	No	Other	Count
Copy of Supply Request?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Lot Kit required with a Kit #?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Shortly After Time Expiry (ATL) #?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
Match Term Agreement (if required)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Self-Sealing Material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Customer Labeling (if any)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Freezer Cap (if any)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Problems noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
Is product analyzed (Sample Field Return)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9
Sample taken, Match OK?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Included Cool Temp (if Analyzed) Metric	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11
Shipped per FDA rules (if Analyzed)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12
Exp (Block Return)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13
Try to Match Supply Bag's Printout?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14

Comments/Remarks (if any): _____
 Additional Required? Yes No

Quantity of Product/Resolution

Project Manager: _____ Date: _____

Project Manager (SCU) Review: _____ Date: _____

Project Manager (SQ) Review: _____ Date: _____

2000

CHAMBER OF COMMERCE (Annual Report Requirement)
 The Annual Report is Due: October 31st of each year and is prepared annually.

Name: Chamber of Commerce
 Address: 1000 1st St
 City: San Francisco State: CA Zip: 94104
 Telephone: 415 398 1234
 Fax: 415 398 1234
 E-mail: info@chambersf.com
 Website: www.chambersf.com
 Date: 10/31/00

Line No.	Description	Code	Rate	Quantity	Amount	Tax	Total
1	SALES TAX						
2	PROPERTY TAX						
3	INCOME TAX						
4	STATE TAX						
5	FEDERAL TAX						
6	SALES TAX						
7	PROPERTY TAX						
8	INCOME TAX						
9	STATE TAX						
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11	SALES TAX						
12	PROPERTY TAX						
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15	FEDERAL TAX						
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96	SALES TAX						
97	PROPERTY TAX						
98	INCOME TAX						
99	STATE TAX						
100	FEDERAL TAX						

Signature: _____
 Title: _____
 Date: _____

10/10/11

CHARTERED UNIVERSITY ANALYTICAL CHEMISTRY DEPARTMENT
 1st Floor, Science Centre, 1000A, University of Liverpool, Liverpool, L69 3GB

Page 1 of 1

Form A
 Sample ID: 4250103
 Date: 10/10/11
 Analyst: [Name]
 Instrument: [Name]
 Method: [Name]

Sample ID	Concentration	Area	Height	Retention Time	Peak Name	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration
4250103	100	10000	1000	10.1	Peak 1	10000	1000	10.1	10000	1000	10.1	10000	1000	10.1	10000	1000	10.1	10000	1000	10.1

Sample ID	Concentration	Area	Height	Retention Time	Peak Name	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	
4250103	100	10000	1000	10.1	Peak 1	10000	1000	10.1	10000	1000	10.1	10000	1000	10.1	10000	1000	10.1	10000	1000	10.1



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 1 Requesting Agency Information Agency Name: <u>San Diego County Sheriff's Department</u> Requester Name: <u>[Blank]</u> Requester Title: <u>[Blank]</u> Agency Address: <u>[Blank]</u> Agency Phone: <u>[Blank]</u> Agency Fax: <u>[Blank]</u> Agency Email: <u>[Blank]</u>		Section 2 Requested Agency Information Agency Name: <u>[Blank]</u> Requester Name: <u>[Blank]</u> Requester Title: <u>[Blank]</u> Agency Address: <u>[Blank]</u> Agency Phone: <u>[Blank]</u> Agency Fax: <u>[Blank]</u> Agency Email: <u>[Blank]</u>		Section 3 Request Information Request Type: <u>[Blank]</u> Request Description: <u>[Blank]</u> Request Date: <u>[Blank]</u> Request Status: <u>[Blank]</u>	
---	--	--	--	--	--

Section 4 Sample Information Sample ID: <u>98-1000-0000-0000</u> Sample Description: <u>[Blank]</u> Sample Location: <u>[Blank]</u> Sample Date: <u>[Blank]</u> Sample Time: <u>[Blank]</u> Sample Quantity: <u>[Blank]</u> Sample Container: <u>[Blank]</u> Sample Packaging: <u>[Blank]</u> Sample Storage: <u>[Blank]</u> Sample Handling: <u>[Blank]</u> Sample Transport: <u>[Blank]</u> Sample Return: <u>[Blank]</u> Sample Disposal: <u>[Blank]</u> Sample Destruction: <u>[Blank]</u> Sample Retention: <u>[Blank]</u> Sample Release: <u>[Blank]</u> Sample Destruction Date: <u>[Blank]</u> Sample Destruction Location: <u>[Blank]</u> Sample Destruction Method: <u>[Blank]</u> Sample Destruction Witness: <u>[Blank]</u> Sample Destruction Date (YYMM): <u>[Blank]</u> Sample Destruction Location (YYMM): <u>[Blank]</u> Sample Destruction Method (YYMM): <u>[Blank]</u> Sample Destruction Witness (YYMM): <u>[Blank]</u>		Section 5 Analytical Tests YES / NO - Microscopic Examination of Trace - Microscopic, Physical Examine - Physical Examination - Field/Document Examine (FDE)	
--	--	---	--

NO.	NAME	AGENCY	DATE	TIME	INITIALS	REMARKS
1						
2						
3						
4						
5						
6						
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25						

TEMP # 0

Released to: (Y/N)

Received by: (Y/N)

Sample ID: (Y/N)

Sample Date: (Y/N)

Quality Control Sample Performance Assessment

Handwritten: ...

Handwritten: ...
 ...

Handwritten: ...

System / Station	Assessment	Notes
...
...
...

Sample ID	Location	Depth	Date	Time	Temp	Salinity	Density	Speed	Direction	Wave Hgt	Wind Dir	Wind Spd	Clouds	Visibility	Pressure	Remarks
...
...

System / Station	Assessment	Notes
...
...

Sample ID	Location	Depth	Date	Time	Temp	Salinity	Density	Speed	Direction	Wave Hgt	Wind Dir	Wind Spd	Clouds	Visibility	Pressure	Remarks
...
...

Handwritten: ...

Handwritten: ...

Handwritten: ...

Handwritten: ...

Quality Control Sample Performance Assessment

10/20/2010

10/20/2010

Sample Name	Sample ID	Sample Type	Sample Location	Sample Date	Sample Time	Sample Status	Sample Results	Sample Comments
Sample 1	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010
Sample 2	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010
Sample 3	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010
Sample 4	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010
Sample 5	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010
Sample 6	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010
Sample 7	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010
Sample 8	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010
Sample 9	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010
Sample 10	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010	10/20/2010

10/20/2010

Quality Control Sample Performance Assessment



Quality Control Sample Performance Assessment

Site: 10-124
 Address: 10-124
 County: 10-124
 State: 10-124

Sample ID	Sample Name	Sample Type	Sample Date	Sample Location
10-124-001	10-124-001	10-124-001	10-124-001	10-124-001
10-124-002	10-124-002	10-124-002	10-124-002	10-124-002
10-124-003	10-124-003	10-124-003	10-124-003	10-124-003
10-124-004	10-124-004	10-124-004	10-124-004	10-124-004
10-124-005	10-124-005	10-124-005	10-124-005	10-124-005

Sample ID	Sample Name	Sample Type	Sample Date	Sample Location	Sample Status
10-124-001	10-124-001	10-124-001	10-124-001	10-124-001	10-124-001
10-124-002	10-124-002	10-124-002	10-124-002	10-124-002	10-124-002
10-124-003	10-124-003	10-124-003	10-124-003	10-124-003	10-124-003
10-124-004	10-124-004	10-124-004	10-124-004	10-124-004	10-124-004
10-124-005	10-124-005	10-124-005	10-124-005	10-124-005	10-124-005

Sample ID	Sample Name	Sample Type	Sample Date	Sample Location	Sample Status
10-124-001	10-124-001	10-124-001	10-124-001	10-124-001	10-124-001
10-124-002	10-124-002	10-124-002	10-124-002	10-124-002	10-124-002
10-124-003	10-124-003	10-124-003	10-124-003	10-124-003	10-124-003
10-124-004	10-124-004	10-124-004	10-124-004	10-124-004	10-124-004
10-124-005	10-124-005	10-124-005	10-124-005	10-124-005	10-124-005

Sample ID	Sample Name	Sample Type	Sample Date	Sample Location	Sample Status
10-124-001	10-124-001	10-124-001	10-124-001	10-124-001	10-124-001
10-124-002	10-124-002	10-124-002	10-124-002	10-124-002	10-124-002
10-124-003	10-124-003	10-124-003	10-124-003	10-124-003	10-124-003
10-124-004	10-124-004	10-124-004	10-124-004	10-124-004	10-124-004
10-124-005	10-124-005	10-124-005	10-124-005	10-124-005	10-124-005

Sample ID	Sample Name	Sample Type	Sample Date	Sample Location	Sample Status
10-124-001	10-124-001	10-124-001	10-124-001	10-124-001	10-124-001
10-124-002	10-124-002	10-124-002	10-124-002	10-124-002	10-124-002
10-124-003	10-124-003	10-124-003	10-124-003	10-124-003	10-124-003
10-124-004	10-124-004	10-124-004	10-124-004	10-124-004	10-124-004
10-124-005	10-124-005	10-124-005	10-124-005	10-124-005	10-124-005

1. Sample ID: 10-124-001, Sample Name: 10-124-001, Sample Type: 10-124-001, Sample Date: 10-124-001, Sample Location: 10-124-001, Sample Status: 10-124-001

2. Sample ID: 10-124-002, Sample Name: 10-124-002, Sample Type: 10-124-002, Sample Date: 10-124-002, Sample Location: 10-124-002, Sample Status: 10-124-002

3. Sample ID: 10-124-003, Sample Name: 10-124-003, Sample Type: 10-124-003, Sample Date: 10-124-003, Sample Location: 10-124-003, Sample Status: 10-124-003

4. Sample ID: 10-124-004, Sample Name: 10-124-004, Sample Type: 10-124-004, Sample Date: 10-124-004, Sample Location: 10-124-004, Sample Status: 10-124-004

5. Sample ID: 10-124-005, Sample Name: 10-124-005, Sample Type: 10-124-005, Sample Date: 10-124-005, Sample Location: 10-124-005, Sample Status: 10-124-005

Quality Control Sample Performance Assessment



Test: R0113
 Unit: #1
 Method: 9932
 Value: 12%

APPROVAL: APPROVED FOR RELEASE BY SIGNATURE REVIEW

APPROVAL	APPROVED FOR RELEASE BY SIGNATURE REVIEW	APPROVED
<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>	<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>	<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>

APPROVAL	APPROVED FOR RELEASE BY SIGNATURE REVIEW	APPROVED
<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>	<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>	<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>

APPROVAL	APPROVED FOR RELEASE BY SIGNATURE REVIEW	APPROVED
<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>	<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>	<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>

APPROVAL	APPROVED FOR RELEASE BY SIGNATURE REVIEW	APPROVED
<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>	<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>	<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>

APPROVAL	APPROVED FOR RELEASE BY SIGNATURE REVIEW	APPROVED
<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>	<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>	<p>APPROVAL: <u>APPROVED FOR RELEASE BY SIGNATURE REVIEW</u></p> <p>APPROVED FOR RELEASE BY SIGNATURE REVIEW</p>

All materials and methods are available at the time of the test.

APPROVAL

APPROVAL

APPROVAL

APPROVAL

APPROVAL

Quality Control Sample Performance Assessment



Standard Water Analysis Laboratory

Lab # 1000
 Date 10/10/10
 Analyst J. Smith

Sample ID	Sample Name	Sample Type	Sample Volume	Sample Date
1000-01	Water	Tap	100 mL	10/10/10
1000-02	Water	Tap	100 mL	10/10/10
1000-03	Water	Tap	100 mL	10/10/10
1000-04	Water	Tap	100 mL	10/10/10
1000-05	Water	Tap	100 mL	10/10/10

Parameter	Method	Units	Result	Acceptance Criteria
Temperature	1000-01	°C	15.5	15.0 - 20.0
Temperature	1000-02	°C	16.0	15.0 - 20.0
Temperature	1000-03	°C	15.8	15.0 - 20.0
Temperature	1000-04	°C	16.2	15.0 - 20.0
Temperature	1000-05	°C	15.9	15.0 - 20.0

Parameter	Method	Units	Result	Acceptance Criteria
pH	1000-01	pH	7.2	6.5 - 8.5
pH	1000-02	pH	7.1	6.5 - 8.5
pH	1000-03	pH	7.3	6.5 - 8.5
pH	1000-04	pH	7.0	6.5 - 8.5
pH	1000-05	pH	7.2	6.5 - 8.5

Parameter	Method	Units	Result	Acceptance Criteria
Chlorine Residual	1000-01	mg/L	0.5	0.2 - 1.0
Chlorine Residual	1000-02	mg/L	0.4	0.2 - 1.0
Chlorine Residual	1000-03	mg/L	0.6	0.2 - 1.0
Chlorine Residual	1000-04	mg/L	0.5	0.2 - 1.0
Chlorine Residual	1000-05	mg/L	0.5	0.2 - 1.0

Parameter	Method	Units	Result	Acceptance Criteria
Total Chlorine	1000-01	mg/L	1.0	0.5 - 2.0
Total Chlorine	1000-02	mg/L	0.9	0.5 - 2.0
Total Chlorine	1000-03	mg/L	1.1	0.5 - 2.0
Total Chlorine	1000-04	mg/L	1.0	0.5 - 2.0
Total Chlorine	1000-05	mg/L	1.0	0.5 - 2.0

Comments: All parameters are within acceptable limits. No significant deviations observed.

Handwritten signature and date: J. Smith, 10/10/10

Quality Control Sample Performance Assessment



Subject: **Quality Control Sample Performance Assessment**

TO: **Quality Control**
 FROM: **Quality Control**
 DATE: **11/11/14**

United States Department of Health and Human Services
 Office of Inspector General
 1200 Jefferson Davis Highway
 Suite 1204
 Arlington, VA 22202-4302
 Telephone: (703) 603-9200
 Fax: (703) 603-9201
 www.oig.hhs.gov

Item	Score	Weight	Total Score
1. Quality Control Sample Performance Assessment	100%	100%	100%
2. Quality Control Sample Performance Assessment	100%	100%	100%
3. Quality Control Sample Performance Assessment	100%	100%	100%
4. Quality Control Sample Performance Assessment	100%	100%	100%
5. Quality Control Sample Performance Assessment	100%	100%	100%
6. Quality Control Sample Performance Assessment	100%	100%	100%
7. Quality Control Sample Performance Assessment	100%	100%	100%
8. Quality Control Sample Performance Assessment	100%	100%	100%
9. Quality Control Sample Performance Assessment	100%	100%	100%
10. Quality Control Sample Performance Assessment	100%	100%	100%

Item	Score	Weight	Total Score
1. Quality Control Sample Performance Assessment	100%	100%	100%
2. Quality Control Sample Performance Assessment	100%	100%	100%
3. Quality Control Sample Performance Assessment	100%	100%	100%
4. Quality Control Sample Performance Assessment	100%	100%	100%
5. Quality Control Sample Performance Assessment	100%	100%	100%
6. Quality Control Sample Performance Assessment	100%	100%	100%
7. Quality Control Sample Performance Assessment	100%	100%	100%
8. Quality Control Sample Performance Assessment	100%	100%	100%
9. Quality Control Sample Performance Assessment	100%	100%	100%
10. Quality Control Sample Performance Assessment	100%	100%	100%

Item	Score	Weight	Total Score
1. Quality Control Sample Performance Assessment	100%	100%	100%
2. Quality Control Sample Performance Assessment	100%	100%	100%
3. Quality Control Sample Performance Assessment	100%	100%	100%
4. Quality Control Sample Performance Assessment	100%	100%	100%
5. Quality Control Sample Performance Assessment	100%	100%	100%
6. Quality Control Sample Performance Assessment	100%	100%	100%
7. Quality Control Sample Performance Assessment	100%	100%	100%
8. Quality Control Sample Performance Assessment	100%	100%	100%
9. Quality Control Sample Performance Assessment	100%	100%	100%
10. Quality Control Sample Performance Assessment	100%	100%	100%

Item	Score	Weight	Total Score
1. Quality Control Sample Performance Assessment	100%	100%	100%
2. Quality Control Sample Performance Assessment	100%	100%	100%
3. Quality Control Sample Performance Assessment	100%	100%	100%
4. Quality Control Sample Performance Assessment	100%	100%	100%
5. Quality Control Sample Performance Assessment	100%	100%	100%
6. Quality Control Sample Performance Assessment	100%	100%	100%
7. Quality Control Sample Performance Assessment	100%	100%	100%
8. Quality Control Sample Performance Assessment	100%	100%	100%
9. Quality Control Sample Performance Assessment	100%	100%	100%
10. Quality Control Sample Performance Assessment	100%	100%	100%

Comments: **Quality Control Sample Performance Assessment**

11/11/14

Quality Control Sample Performance Assessment



Sample Name: Sample Name Date: MM/DD/YYYY

Lot: 1234
 Qty: 500
 Date: MM/DD/YYYY
 Qty: 500

Lot Sample ID	Quantity
Lot 1	500
Lot 2	500
Lot 3	500
Lot 4	500
Lot 5	500

Sample ID	Quantity	Weight	Volume
1	500	100g	100ml
2	500	100g	100ml
3	500	100g	100ml
4	500	100g	100ml
5	500	100g	100ml
6	500	100g	100ml
7	500	100g	100ml
8	500	100g	100ml
9	500	100g	100ml
10	500	100g	100ml

Sample ID	Quantity	Weight	Volume
1	500	100g	100ml
2	500	100g	100ml
3	500	100g	100ml
4	500	100g	100ml
5	500	100g	100ml
6	500	100g	100ml
7	500	100g	100ml
8	500	100g	100ml
9	500	100g	100ml
10	500	100g	100ml

Sample Name	Quantity	Weight	Volume
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml

Sample Name	Quantity	Weight	Volume
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml
Sample Name	500	100g	100ml

Signature

Project Name: _____

Quality Control Sample Performance Assessment

Assess the quality of the sample performance in terms of:

1. Accuracy
2. Precision
3. Reliability
4. Consistency

Parameter	Value
Accuracy	95%
Precision	98%
Reliability	99%
Consistency	97%

Parameter	Value
Accuracy	95%
Precision	98%
Reliability	99%
Consistency	97%

Parameter	Value
Accuracy	95%
Precision	98%
Reliability	99%
Consistency	97%

Parameter	Value
Accuracy	95%
Precision	98%
Reliability	99%
Consistency	97%

Parameter	Value
Accuracy	95%
Precision	98%
Reliability	99%
Consistency	97%

Parameter	Value
Accuracy	95%
Precision	98%
Reliability	99%
Consistency	97%

Overall Performance: Excellent



May 13, 2021

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

RE: Project: MCDONOUGH AP-234
Pace Project No.: 92524831

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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-234
Pace Project No.: 92524831

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-234
Pace Project No.: 92524831

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524831001	DGWC-4	Water	03/01/21 16:40	03/02/21 08:45
92524831002	DGWC-2	Water	03/02/21 10:38	03/03/21 09:10
92524831003	DGWC-5	Water	03/02/21 10:15	03/03/21 09:10
92524831004	DGWC-8	Water	03/02/21 16:15	03/03/21 09:10
92524831005	DGWC-9	Water	03/02/21 15:23	03/03/21 09:10
92524831006	DGWC-11	Water	03/02/21 16:20	03/03/21 09:10
92524831007	DGWC-13	Water	03/02/21 14:37	03/03/21 09:10
92524831008	DGWC-14	Water	03/02/21 11:44	03/03/21 09:10
92524831009	DGWC-15	Water	03/02/21 10:22	03/03/21 09:10
92524831010	DGWC-19	Water	03/02/21 13:30	03/03/21 09:10
92524831011	DGWC-20	Water	03/02/21 16:13	03/03/21 09:10
92524831012	DUP-1	Water	03/02/21 00:00	03/03/21 09:10
92524831013	FB-1	Water	03/02/21 10:32	03/03/21 09:10
92524831014	EB-1	Water	03/02/21 10:45	03/03/21 09:10
92524831016	DGWC-12	Water	03/03/21 12:20	03/04/21 09:00
92524831017	DGWC-17	Water	03/03/21 16:55	03/04/21 09:00
92524831018	DGWC-21	Water	03/03/21 12:56	03/04/21 09:00
92524831019	DGWC-22	Water	03/03/21 14:26	03/04/21 09:00
92524831020	DGWC-23	Water	03/03/21 16:22	03/04/21 09:00
92524831021	DGWC-42	Water	03/03/21 14:09	03/04/21 09:00
92524831022	DGWC-47	Water	03/03/21 11:45	03/04/21 09:00
92524831023	DGWC-48	Water	03/03/21 10:07	03/04/21 09:00
92524831024	DGWC-10	Water	03/04/21 13:20	03/05/21 16:16

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524831001	DGWC-4	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524831002	DGWC-2	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524831003	DGWC-5	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524831004	DGWC-8	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524831005	DGWC-9	EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524831006	DGWC-11	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524831007	DGWC-13	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524831008	DGWC-14	EPA 6010D	DRB	1
		EPA 6020B	KH	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524831009	DGWC-15	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
92524831010	DGWC-19	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92524831011	DGWC-20	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92524831012	DUP-1	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
92524831013	FB-1	EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
92524831014	EB-1	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
92524831016	DGWC-12	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524831017	DGWC-17	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92524831018	DGWC-21	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92524831019	DGWC-22	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92524831020	DGWC-23	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92524831021	DGWC-42	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92524831022	DGWC-47	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92524831023	DGWC-48	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92524831024	DGWC-10	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234
Pace Project No.: 92524831

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3

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

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Sample: DGWC-4		Lab ID: 92524831001		Collected: 03/01/21 16:40		Received: 03/02/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.82	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	322	mg/L	10.0	0.70	10	03/03/21 10:17	03/08/21 20:46	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00049J	mg/L	0.0030	0.00028	1	03/03/21 10:24	03/03/21 17:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/03/21 10:24	03/03/21 17:29	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00071	1	03/03/21 10:24	03/03/21 17:29	7440-39-3	
Beryllium	0.00027J	mg/L	0.00050	0.000046	1	03/03/21 10:24	03/03/21 17:29	7440-41-7	
Boron	4.7	mg/L	0.040	0.0052	1	03/03/21 10:24	03/03/21 17:29	7440-42-8	
Cadmium	0.00085	mg/L	0.00050	0.00012	1	03/03/21 10:24	03/03/21 17:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/03/21 10:24	03/03/21 17:29	7440-47-3	
Cobalt	0.0020J	mg/L	0.0050	0.00038	1	03/03/21 10:24	03/03/21 17:29	7440-48-4	
Lead	0.00012J	mg/L	0.0010	0.000036	1	03/03/21 10:24	03/03/21 17:29	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00081	1	03/03/21 10:24	03/03/21 17:29	7439-93-2	
Molybdenum	0.0051J	mg/L	0.010	0.00069	1	03/03/21 10:24	03/03/21 17:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/03/21 10:24	03/04/21 13:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/03/21 10:24	03/03/21 17:29	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 13:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1140	mg/L	200	200	1		03/02/21 15:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	15.0	mg/L	1.0	0.60	1		03/06/21 15:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 15:47	16984-48-8	
Sulfate	840	mg/L	17.0	8.5	17		03/07/21 04:05	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-2 **Lab ID: 92524831002** Collected: 03/02/21 10:38 Received: 03/03/21 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	6.01	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	44.0	mg/L	1.0	0.070	1	03/05/21 10:53	03/09/21 23:44	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 19:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 19:52	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 19:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 19:52	7440-41-7	
Boron	0.52	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 19:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 19:52	7440-43-9	
Chromium	0.00064J	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 19:52	7440-47-3	
Cobalt	0.0055	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 19:52	7440-48-4	
Lead	0.00014J	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 19:52	7439-92-1	
Lithium	0.023J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 19:52	7439-93-2	
Molybdenum	0.0021J	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 19:52	7439-98-7	
Selenium	0.0037J	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 19:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 19:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 13:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	241	mg/L	10.0	10.0	1		03/04/21 14:28		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.1	mg/L	1.0	0.60	1		03/12/21 04:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 04:48	16984-48-8	
Sulfate	112	mg/L	3.0	1.5	3		03/12/21 07:18	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-5 **Lab ID: 92524831003** Collected: 03/02/21 10:15 Received: 03/03/21 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.00	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	114	mg/L	1.0	0.070	1	03/05/21 10:53	03/10/21 00:14	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0015J	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 20:15	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 20:15	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 20:15	7440-39-3	
Beryllium	0.0063	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 20:15	7440-41-7	
Boron	4.3	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 20:15	7440-42-8	
Cadmium	0.00075	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 20:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 20:15	7440-47-3	
Cobalt	0.021	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 20:15	7440-48-4	
Lead	0.000080J	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 20:15	7439-92-1	
Lithium	0.0064J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 20:15	7439-98-7	
Selenium	0.0081	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 20:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000094J	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 13:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	730	mg/L	20.0	20.0	1		03/04/21 14:28		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.8	mg/L	1.0	0.60	1		03/12/21 05:03	16887-00-6	
Fluoride	0.15	mg/L	0.10	0.050	1		03/12/21 05:03	16984-48-8	
Sulfate	412	mg/L	9.0	4.5	9		03/12/21 07:33	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-8 **Lab ID: 92524831004** Collected: 03/02/21 16:15 Received: 03/03/21 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	6.60	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	35.6	mg/L	1.0	0.070	1	03/05/21 10:53	03/10/21 00:19	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00046J	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 20:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 20:21	7440-38-2	
Barium	0.029	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 20:21	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 20:21	7440-41-7	
Boron	0.96	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 20:21	7440-42-8	
Cadmium	0.0017	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 20:21	7440-43-9	
Chromium	0.0015J	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 20:21	7440-47-3	
Cobalt	0.033	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 20:21	7440-48-4	
Lead	0.00027J	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 20:21	7439-92-1	
Lithium	0.0046J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 20:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 20:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 20:21	7782-49-2	
Thallium	0.00019J	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 20:21	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	03/08/21 08:45	03/08/21 13:47	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	291	mg/L	10.0	10.0	1		03/04/21 14:28		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.6	mg/L	1.0	0.60	1		03/12/21 05:18	16887-00-6	
Fluoride	0.059J	mg/L	0.10	0.050	1		03/12/21 05:18	16984-48-8	
Sulfate	152	mg/L	3.0	1.5	3		03/12/21 07:47	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Sample: DGWC-9	Lab ID: 92524831005	Collected: 03/02/21 15:23		Received: 03/03/21 09:10		Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	3.99	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	48.8	mg/L	1.0	0.070	1	03/05/21 10:53	03/10/21 00:23	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 20:27	7440-36-0	
Arsenic	0.021	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 20:27	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 20:27	7440-39-3	
Beryllium	0.0050	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 20:27	7440-41-7	
Boron	0.77	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 20:27	7440-42-8	
Cadmium	0.00057	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 20:27	7440-43-9	
Chromium	0.00059J	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 20:27	7440-47-3	
Cobalt	0.18	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 20:27	7440-48-4	
Lead	0.00028J	mg/L	0.0050	0.00018	5	03/05/21 13:31	03/10/21 20:32	7439-92-1	D3
Lithium	0.028J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 20:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 20:27	7439-98-7	
Selenium	0.070	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 20:27	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00072	5	03/05/21 13:31	03/10/21 20:32	7440-28-0	D3
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00017J	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 13:49	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	449	mg/L	10.0	10.0	1		03/04/21 14:28		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.4	mg/L	1.0	0.60	1		03/12/21 05:33	16887-00-6	
Fluoride	0.93	mg/L	0.10	0.050	1		03/12/21 05:33	16984-48-8	
Sulfate	266	mg/L	6.0	3.0	6		03/12/21 08:02	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-11 **Lab ID:** 92524831006 Collected: 03/02/21 16:20 Received: 03/03/21 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.59	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	65.3	mg/L	1.0	0.070	1	03/05/21 10:53	03/10/21 00:28	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 20:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 20:32	7440-38-2	
Barium	0.052	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 20:32	7440-39-3	
Beryllium	0.00014J	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 20:32	7440-41-7	
Boron	1.3	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 20:32	7440-42-8	
Cadmium	0.00013J	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 20:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 20:32	7440-47-3	
Cobalt	0.00065J	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 20:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 20:32	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 20:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 20:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 20:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 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	0.000078	1	03/08/21 08:45	03/08/21 13:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	456	mg/L	10.0	10.0	1		03/04/21 14:28		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	14.4	mg/L	1.0	0.60	1		03/12/21 05:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 05:48	16984-48-8	
Sulfate	250	mg/L	6.0	3.0	6		03/12/21 08:17	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-13 **Lab ID: 92524831007** Collected: 03/02/21 14:37 Received: 03/03/21 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.69	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	40.5	mg/L	1.0	0.070	1	03/05/21 10:53	03/10/21 00:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 20:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 20:50	7440-38-2	
Barium	0.030	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 20:50	7440-39-3	
Beryllium	0.000073J	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 20:50	7440-41-7	
Boron	0.58	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 20:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 20:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 20:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 20:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 20:50	7439-92-1	
Lithium	0.0033J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 20:50	7439-93-2	
Molybdenum	0.011	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 20:50	7439-98-7	
Selenium	0.0060	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 20:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 14:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	256	mg/L	10.0	10.0	1		03/04/21 14:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.1	mg/L	1.0	0.60	1		03/12/21 06:48	16887-00-6	
Fluoride	0.084J	mg/L	0.10	0.050	1		03/12/21 06:48	16984-48-8	
Sulfate	131	mg/L	3.0	1.5	3		03/12/21 08:31	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-14 **Lab ID: 92524831008** Collected: 03/02/21 11:44 Received: 03/03/21 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.81	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.4	mg/L	1.0	0.070	1	03/05/21 10:53	03/10/21 00:38	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 20:55	7440-38-2	
Barium	0.064	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 20:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 20:55	7440-41-7	
Boron	0.089	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 20:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 20:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 20:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 20:55	7440-48-4	
Lead	0.000083J	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 20:55	7439-92-1	
Lithium	0.0040J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 20:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 20:55	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	03/08/21 08:45	03/08/21 14:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	105	mg/L	10.0	10.0	1		03/04/21 14:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		03/12/21 07:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 07:03	16984-48-8	
Sulfate	42.6	mg/L	1.0	0.50	1		03/12/21 07:03	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-15 **Lab ID: 92524831009** Collected: 03/02/21 10:22 Received: 03/03/21 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.81	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	36.0	mg/L	1.0	0.070	1	03/05/21 10:52	03/09/21 12:41	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 21:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 21:01	7440-38-2	
Barium	0.043	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 21:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 21:01	7440-41-7	
Boron	1.4	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 21:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 21:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 21:01	7440-47-3	
Cobalt	0.0013J	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 21:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 21:01	7439-92-1	
Lithium	0.0051J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 21:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 21:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 21:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 21:01	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	0.000078	1	03/08/21 08:45	03/08/21 14:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	272	mg/L	10.0	10.0	1		03/04/21 14:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	22.8	mg/L	1.0	0.60	1		03/12/21 01:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 01:38	16984-48-8	
Sulfate	148	mg/L	3.0	1.5	3		03/12/21 08:10	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-19 **Lab ID: 92524831010** Collected: 03/02/21 13:30 Received: 03/03/21 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	4.84	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	93.2	mg/L	1.0	0.070	1	03/05/21 10:52	03/09/21 13:00	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 21:07	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 21:07	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 21:07	7440-39-3	
Beryllium	0.0019	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 21:07	7440-41-7	
Boron	2.3	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 21:07	7440-42-8	
Cadmium	0.00035J	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 21:07	7440-43-9	
Chromium	0.0024J	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 21:07	7440-47-3	
Cobalt	0.051	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 21:07	7440-48-4	
Lead	0.000045J	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 21:07	7439-92-1	
Lithium	0.0030J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 21:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 21:07	7439-98-7	
Selenium	0.0091	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 21:07	7782-49-2	
Thallium	0.00056J	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 21:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 14:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	513	mg/L	10.0	10.0	1		03/04/21 14:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	27.0	mg/L	1.0	0.60	1		03/12/21 01:52	16887-00-6	
Fluoride	0.19	mg/L	0.10	0.050	1		03/12/21 01:52	16984-48-8	
Sulfate	324	mg/L	7.0	3.5	7		03/12/21 08:54	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-20 **Lab ID: 92524831011** Collected: 03/02/21 16:13 Received: 03/03/21 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	4.45	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	74.7	mg/L	1.0	0.070	1	03/05/21 10:52	03/09/21 13:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 21:12	7440-36-0	
Arsenic	0.019	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 21:12	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 21:12	7440-39-3	
Beryllium	0.0057	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 21:12	7440-41-7	
Boron	3.4	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 21:12	7440-42-8	
Cadmium	0.0025	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 21:12	7440-43-9	
Chromium	0.0022J	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 21:12	7440-47-3	
Cobalt	0.77	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 21:12	7440-48-4	
Lead	0.00047J	mg/L	0.0050	0.00018	5	03/05/21 13:31	03/10/21 20:38	7439-92-1	D3
Lithium	0.011J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 21:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 21:12	7439-98-7	
Selenium	0.078	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 21:12	7782-49-2	
Thallium	0.0014J	mg/L	0.0050	0.00072	5	03/05/21 13:31	03/10/21 20:38	7440-28-0	D3
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000090J	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 14:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	742	mg/L	20.0	20.0	1		03/04/21 14:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	28.0	mg/L	1.0	0.60	1		03/12/21 02:07	16887-00-6	
Fluoride	1.4	mg/L	0.10	0.050	1		03/12/21 02:07	16984-48-8	
Sulfate	458	mg/L	10.0	5.0	10		03/12/21 09:22	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DUP-1 **Lab ID:** 92524831012 Collected: 03/02/21 00:00 Received: 03/03/21 09:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	35.7	mg/L	1.0	0.070	1	03/05/21 10:52	03/09/21 13:10	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 21:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 21:18	7440-38-2	
Barium	0.044	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 21:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 21:18	7440-41-7	
Boron	1.4	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 21:18	7440-42-8	
Cadmium	0.00013J	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 21:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 21:18	7440-47-3	
Cobalt	0.0014J	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 21:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 21:18	7439-92-1	
Lithium	0.0051J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 21:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 21:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 21:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 21:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 14:32	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	284	mg/L	10.0	10.0	1		03/04/21 14:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	22.6	mg/L	1.0	0.60	1		03/12/21 02:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 02:21	16984-48-8	
Sulfate	148	mg/L	3.0	1.5	3		03/12/21 09:38	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: FB-1	Lab ID: 92524831013	Collected: 03/02/21 10:32	Received: 03/03/21 09:10	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	03/05/21 10:52	03/09/21 13:15	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 21:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 21:24	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 21:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 21:24	7440-41-7	
Boron	0.025J	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 21:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 21:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 21:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 21:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 21:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 21:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 21:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 21:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 21:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 14:49	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/04/21 14:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/12/21 03:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 03:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/21 03:05	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: EB-1	Lab ID: 92524831014		Collected: 03/02/21 10:45	Received: 03/03/21 09:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	03/05/21 10:52	03/09/21 13:30	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 21:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 21:30	7440-38-2	
Barium	0.0015J	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 21:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 21:30	7440-41-7	
Boron	0.0097J	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 21:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 21:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 21:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 21:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 21:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 21:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 21:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 21:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 21:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 14:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/04/21 14:29		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/12/21 03:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/12/21 03:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/12/21 03:19	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-12 **Lab ID: 92524831016** Collected: 03/03/21 12:20 Received: 03/04/21 09:00 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		03/22/21 11:48		
pH	6.13	Std. Units			1		03/22/21 11:48		

6010D ATL ICP

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

Calcium	50.1	mg/L	1.0	0.070	1	03/05/21 10:52	03/09/21 13:39	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	0.00028	1	03/05/21 13:31	03/08/21 22:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 22:10	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 22:10	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 22:10	7440-41-7	
Boron	3.6	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 22:10	7440-42-8	
Cadmium	0.00016J	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 22:10	7440-43-9	
Chromium	0.00099J	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 22:10	7440-47-3	
Cobalt	0.010	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 22:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 22:10	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 22:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 22:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 22:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 22:10	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 15:30	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	325	mg/L	10.0	10.0	1		03/05/21 15:35		
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300.0 IC Anions 28 Days

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

Chloride	10.3	mg/L	1.0	0.60	1		03/13/21 13:04	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		03/13/21 13:04	16984-48-8	
Sulfate	203	mg/L	4.0	2.0	4		03/14/21 06:53	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Sample: DGWC-17 **Lab ID: 92524831017** Collected: 03/03/21 16:55 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.23	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	14.3	mg/L	1.0	0.070	1	03/05/21 10:52	03/09/21 13:44	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 22:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 22:15	7440-38-2	
Barium	0.036	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 22:15	7440-39-3	
Beryllium	0.00056	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 22:15	7440-41-7	
Boron	0.71	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 22:15	7440-42-8	
Cadmium	0.00023J	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 22:15	7440-43-9	
Chromium	0.0028J	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 22:15	7440-47-3	
Cobalt	0.016	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 22:15	7440-48-4	
Lead	0.00015J	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 22:15	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 22:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 22:15	7439-98-7	
Selenium	0.0072	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 22:15	7782-49-2	
Thallium	0.00017J	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 22:15	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	03/08/21 08:45	03/08/21 15:32	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	384	mg/L	10.0	10.0	1		03/05/21 15:35		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	20.9	mg/L	1.0	0.60	1		03/13/21 13:18	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		03/13/21 13:18	16984-48-8	
Sulfate	237	mg/L	5.0	2.5	5		03/14/21 07:08	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Sample: DGWC-21	Lab ID: 92524831018	Collected: 03/03/21 12:56		Received: 03/04/21 09:00		Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.63	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	82.1	mg/L	1.0	0.070	1	03/05/21 10:52	03/09/21 13:49	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 22:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 22:21	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 22:21	7440-39-3	
Beryllium	0.00017J	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 22:21	7440-41-7	
Boron	5.3	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 22:21	7440-42-8	
Cadmium	0.00044J	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 22:21	7440-43-9	
Chromium	0.0020J	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 22:21	7440-47-3	
Cobalt	0.0087	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 22:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 22:21	7439-92-1	
Lithium	0.0054J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 22:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 22:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 22:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 22:21	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	03/08/21 08:45	03/08/21 15:35	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	459	mg/L	10.0	10.0	1		03/05/21 15:35		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	19.7	mg/L	1.0	0.60	1		03/13/21 13:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 13:33	16984-48-8	
Sulfate	264	mg/L	6.0	3.0	6		03/14/21 07:22	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Sample: DGWC-22	Lab ID: 92524831019	Collected: 03/03/21 14:26	Received: 03/04/21 09:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.71	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	62.3	mg/L	1.0	0.070	1	03/05/21 12:04	03/10/21 02:58	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:30	03/09/21 15:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:30	03/09/21 15:58	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00071	1	03/05/21 13:30	03/09/21 15:58	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000046	1	03/05/21 13:30	03/09/21 15:58	7440-41-7	
Boron	3.9	mg/L	0.040	0.0052	1	03/05/21 13:30	03/09/21 15:58	7440-42-8	
Cadmium	0.00050	mg/L	0.00050	0.00012	1	03/05/21 13:30	03/09/21 15:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:30	03/09/21 15:58	7440-47-3	
Cobalt	0.0078	mg/L	0.0050	0.00038	1	03/05/21 13:30	03/09/21 15:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/05/21 13:30	03/09/21 15:58	7439-92-1	
Lithium	0.0038J	mg/L	0.030	0.00081	1	03/05/21 13:30	03/09/21 15:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:30	03/09/21 15:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:30	03/09/21 15:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:30	03/09/21 15:58	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 15:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	442	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	20.6	mg/L	1.0	0.60	1		03/13/21 14:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 14:30	16984-48-8	
Sulfate	252	mg/L	5.0	2.5	5		03/14/21 07:37	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Sample: DGWC-23		Lab ID: 92524831020		Collected: 03/03/21 16:22		Received: 03/04/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.85	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	68.1	mg/L	1.0	0.070	1	03/05/21 12:04	03/10/21 03:18	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:30	03/09/21 16:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:30	03/09/21 16:03	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00071	1	03/05/21 13:30	03/09/21 16:03	7440-39-3	
Beryllium	0.00050	mg/L	0.00050	0.000046	1	03/05/21 13:30	03/09/21 16:03	7440-41-7	
Boron	4.0	mg/L	0.040	0.0052	1	03/05/21 13:30	03/09/21 16:03	7440-42-8	
Cadmium	0.00015J	mg/L	0.00050	0.00012	1	03/05/21 13:30	03/09/21 16:03	7440-43-9	
Chromium	0.0014J	mg/L	0.0050	0.00055	1	03/05/21 13:30	03/09/21 16:03	7440-47-3	
Cobalt	0.00039J	mg/L	0.0050	0.00038	1	03/05/21 13:30	03/09/21 16:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/05/21 13:30	03/09/21 16:03	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00081	1	03/05/21 13:30	03/09/21 16:03	7439-93-2	
Molybdenum	0.0026J	mg/L	0.010	0.00069	1	03/05/21 13:30	03/09/21 16:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:30	03/09/21 16:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:30	03/09/21 16:03	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00033	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 15:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	425	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	14.0	mg/L	1.0	0.60	1		03/13/21 14:45	16887-00-6	
Fluoride	0.063J	mg/L	0.10	0.050	1		03/13/21 14:45	16984-48-8	
Sulfate	221	mg/L	5.0	2.5	5		03/14/21 09:18	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Sample: DGWC-42 **Lab ID: 92524831021** Collected: 03/03/21 14:09 Received: 03/04/21 09:00 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		03/22/21 11:48		
pH	5.30	Std. Units			1		03/22/21 11:48		

6010D ATL ICP

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

Calcium	38.8	mg/L	1.0	0.070	1	03/05/21 12:04	03/10/21 03:23	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	0.00028	1	03/05/21 13:30	03/09/21 16:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:30	03/09/21 16:09	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00071	1	03/05/21 13:30	03/09/21 16:09	7440-39-3	
Beryllium	0.0023	mg/L	0.00050	0.000046	1	03/05/21 13:30	03/09/21 16:09	7440-41-7	
Boron	0.87	mg/L	0.040	0.0052	1	03/05/21 13:30	03/09/21 16:09	7440-42-8	
Cadmium	0.00038J	mg/L	0.00050	0.00012	1	03/05/21 13:30	03/09/21 16:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:30	03/09/21 16:09	7440-47-3	
Cobalt	0.0087	mg/L	0.0050	0.00038	1	03/05/21 13:30	03/09/21 16:09	7440-48-4	
Lead	0.00024J	mg/L	0.0010	0.000036	1	03/05/21 13:30	03/09/21 16:09	7439-92-1	
Lithium	0.0079J	mg/L	0.030	0.00081	1	03/05/21 13:30	03/09/21 16:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:30	03/09/21 16:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/05/21 13:30	03/09/21 16:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:30	03/09/21 16:09	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	03/08/21 09:00	03/08/21 15:57	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	531	mg/L	10.0	10.0	1		03/05/21 15:36		
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300.0 IC Anions 28 Days

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

Chloride	20.8	mg/L	1.0	0.60	1		03/13/21 14:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 14:59	16984-48-8	
Sulfate	329	mg/L	7.0	3.5	7		03/14/21 09:32	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Sample: DGWC-47	Lab ID: 92524831022	Collected: 03/03/21 11:45	Received: 03/04/21 09:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	3.98	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	25.5	mg/L	1.0	0.070	1	03/05/21 12:04	03/10/21 03:28	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:30	03/09/21 16:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:30	03/09/21 16:15	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00071	1	03/05/21 13:30	03/09/21 16:15	7440-39-3	
Beryllium	0.0081	mg/L	0.00050	0.000046	1	03/05/21 13:30	03/09/21 16:15	7440-41-7	
Boron	0.17	mg/L	0.040	0.0052	1	03/05/21 13:30	03/09/21 16:15	7440-42-8	
Cadmium	0.0016	mg/L	0.00050	0.00012	1	03/05/21 13:30	03/09/21 16:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:30	03/09/21 16:15	7440-47-3	
Cobalt	0.20	mg/L	0.0050	0.00038	1	03/05/21 13:30	03/09/21 16:15	7440-48-4	
Lead	0.00070J	mg/L	0.0010	0.000036	1	03/05/21 13:30	03/09/21 16:15	7439-92-1	
Lithium	0.049	mg/L	0.030	0.00081	1	03/05/21 13:30	03/09/21 16:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:30	03/09/21 16:15	7439-98-7	
Selenium	0.0039J	mg/L	0.0050	0.0016	1	03/05/21 13:30	03/09/21 16:15	7782-49-2	
Thallium	0.00023J	mg/L	0.0010	0.00014	1	03/05/21 13:30	03/09/21 16:15	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	03/08/21 09:00	03/08/21 16:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	228	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.9	mg/L	1.0	0.60	1		03/13/21 15:14	16887-00-6	
Fluoride	0.71	mg/L	0.10	0.050	1		03/13/21 15:14	16984-48-8	M1
Sulfate	143	mg/L	3.0	1.5	3		03/14/21 09:47	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Sample: DGWC-48		Lab ID: 92524831023		Collected: 03/03/21 10:07		Received: 03/04/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	4.14	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	66.0	mg/L	1.0	0.070	1	03/05/21 12:04	03/10/21 03:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:30	03/09/21 16:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/05/21 13:30	03/09/21 16:21	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/05/21 13:30	03/09/21 16:21	7440-39-3	
Beryllium	0.0068	mg/L	0.00050	0.000046	1	03/05/21 13:30	03/09/21 16:21	7440-41-7	
Boron	0.57	mg/L	0.040	0.0052	1	03/05/21 13:30	03/09/21 16:21	7440-42-8	
Cadmium	0.0033	mg/L	0.00050	0.00012	1	03/05/21 13:30	03/09/21 16:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/05/21 13:30	03/09/21 16:21	7440-47-3	
Cobalt	0.36	mg/L	0.0050	0.00038	1	03/05/21 13:30	03/09/21 16:21	7440-48-4	
Lead	0.0011	mg/L	0.0010	0.000036	1	03/05/21 13:30	03/09/21 16:21	7439-92-1	
Lithium	0.096	mg/L	0.030	0.00081	1	03/05/21 13:30	03/09/21 16:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:30	03/09/21 16:21	7439-98-7	
Selenium	0.0025J	mg/L	0.0050	0.0016	1	03/05/21 13:30	03/09/21 16:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/21 13:30	03/09/21 16:21	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	03/08/21 09:00	03/08/21 16:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	521	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	14.2	mg/L	1.0	0.60	1		03/13/21 15:57	16887-00-6	
Fluoride	0.67	mg/L	0.10	0.050	1		03/13/21 15:57	16984-48-8	
Sulfate	312	mg/L	7.0	3.5	7		03/14/21 10:31	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Sample: DGWC-10 **Lab ID: 92524831024** Collected: 03/04/21 13:20 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.27	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	75.8	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 05:11	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 15:23	7440-36-0	
Arsenic	0.0060	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 15:23	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 15:23	7440-39-3	
Beryllium	0.0086	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 15:23	7440-41-7	
Boron	0.65	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 15:23	7440-42-8	
Cadmium	0.00088	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 15:23	7440-43-9	
Chromium	0.00090J	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 15:23	7440-47-3	
Cobalt	0.071	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 15:23	7440-48-4	
Lead	0.000092J	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 15:23	7439-92-1	
Lithium	0.0042J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 15:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 15:23	7439-98-7	
Selenium	0.050	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 15:23	7782-49-2	
Thallium	0.00042J	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 15:23	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 10:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	430	mg/L	10.0	10.0	1		03/09/21 16:22		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.2	mg/L	1.0	0.60	1		03/15/21 13:18	16887-00-6	
Fluoride	1.8	mg/L	0.10	0.050	1		03/15/21 13:18	16984-48-8	
Sulfate	240	mg/L	5.0	2.5	5		03/15/21 20:57	14808-79-8	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

QC Batch: 603832

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831001

METHOD BLANK: 3180960

Matrix: Water

Associated Lab Samples: 92524831001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/03/21 17:08	

LABORATORY CONTROL SAMPLE: 3180961

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: 3180962 3180963

Parameter	Units	3180962		3180963		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	23.3	1	1	25.2	25.9	190	266	75-125	3	20 M1

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

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

QC Batch:	604550	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831002, 92524831003, 92524831004, 92524831005, 92524831006, 92524831007, 92524831008

METHOD BLANK: 3184771 Matrix: Water

Associated Lab Samples: 92524831002, 92524831003, 92524831004, 92524831005, 92524831006, 92524831007, 92524831008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/09/21 23:35	

LABORATORY CONTROL SAMPLE: 3184772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184773 3184774

Parameter	Units	92524831002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	44.0	1	1	43.9	44.6	-5	63	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 604554 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831009, 92524831010, 92524831011, 92524831012, 92524831013, 92524831014, 92524831016, 92524831017, 92524831018

METHOD BLANK: 3184787 Matrix: Water
 Associated Lab Samples: 92524831009, 92524831010, 92524831011, 92524831012, 92524831013, 92524831014, 92524831016, 92524831017, 92524831018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/09/21 12:31	

LABORATORY CONTROL SAMPLE: 3184788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184789 3184790

Parameter	Units	92524831009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	36.0	1	1	36.5	36.3	44	33	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

QC Batch: 604561	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831019, 92524831020, 92524831021, 92524831022, 92524831023

METHOD BLANK: 3184821 Matrix: Water
 Associated Lab Samples: 92524831019, 92524831020, 92524831021, 92524831022, 92524831023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/10/21 02:39	

LABORATORY CONTROL SAMPLE: 3184822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184823 3184824

Parameter	Units	3184823		3184824		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524831019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	62.3	1	1	63.4	63.6	105	121	75-125	0	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 607149 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831024

METHOD BLANK: 3198600 Matrix: Water
 Associated Lab Samples: 92524831024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/19/21 05:01	

LABORATORY CONTROL SAMPLE: 3198601

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: 3198602 3198603

Parameter	Units	92524831024		3198603		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	75.8	1	1	76.8	76.5	102	71	75-125	0	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

QC Batch:	603841	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831001

METHOD BLANK: 3181014 Matrix: Water

Associated Lab Samples: 92524831001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/03/21 16:48	
Arsenic	mg/L	ND	0.0050	0.00078	03/03/21 16:48	
Barium	mg/L	ND	0.0050	0.00071	03/03/21 16:48	
Beryllium	mg/L	ND	0.00050	0.000046	03/03/21 16:48	
Boron	mg/L	ND	0.040	0.0052	03/03/21 16:48	
Cadmium	mg/L	ND	0.00050	0.00012	03/03/21 16:48	
Chromium	mg/L	ND	0.0050	0.00055	03/03/21 16:48	
Cobalt	mg/L	ND	0.0050	0.00038	03/03/21 16:48	
Lead	mg/L	ND	0.0010	0.000036	03/03/21 16:48	
Lithium	mg/L	ND	0.030	0.00081	03/03/21 16:48	
Molybdenum	mg/L	ND	0.010	0.00069	03/03/21 16:48	
Selenium	mg/L	ND	0.0050	0.0016	03/04/21 13:23	
Thallium	mg/L	ND	0.0010	0.00014	03/03/21 16:48	

LABORATORY CONTROL SAMPLE: 3181015

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	0.095	95	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3181016 3181017

Parameter	Units	92524830001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	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-234

Pace Project No.: 92524831

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3181016 3181017												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92524830001 Result	Spike Conc.	Spike Conc.	MS Result							
Barium	mg/L	0.042	0.1	0.1	0.15	0.14	104	100	75-125	3	20	
Beryllium	mg/L	0.00012J	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Boron	mg/L	ND	1	1	0.96	0.96	96	96	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	99	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.099	0.098	99	97	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.091	98	91	75-125	7	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.090	93	90	75-125	3	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

QC Batch: 604612 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831002, 92524831003, 92524831004, 92524831005, 92524831006, 92524831007, 92524831008, 92524831009, 92524831010, 92524831011, 92524831012, 92524831013, 92524831014, 92524831016, 92524831017, 92524831018

METHOD BLANK: 3185232 Matrix: Water

Associated Lab Samples: 92524831002, 92524831003, 92524831004, 92524831005, 92524831006, 92524831007, 92524831008, 92524831009, 92524831010, 92524831011, 92524831012, 92524831013, 92524831014, 92524831016, 92524831017, 92524831018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/08/21 19:41	
Arsenic	mg/L	ND	0.0050	0.00078	03/08/21 19:41	
Barium	mg/L	ND	0.0050	0.00071	03/08/21 19:41	
Beryllium	mg/L	ND	0.00050	0.000046	03/08/21 19:41	
Boron	mg/L	ND	0.040	0.0052	03/08/21 19:41	
Cadmium	mg/L	ND	0.00050	0.00012	03/08/21 19:41	
Chromium	mg/L	ND	0.0050	0.00055	03/08/21 19:41	
Cobalt	mg/L	ND	0.0050	0.00038	03/08/21 19:41	
Lead	mg/L	ND	0.0010	0.000036	03/08/21 19:41	
Lithium	mg/L	ND	0.030	0.00081	03/08/21 19:41	
Molybdenum	mg/L	ND	0.010	0.00069	03/08/21 19:41	
Selenium	mg/L	ND	0.0050	0.0016	03/08/21 19:41	
Thallium	mg/L	ND	0.0010	0.00014	03/08/21 19:41	

LABORATORY CONTROL SAMPLE: 3185233

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	0.096	96	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.92	92	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.096	96	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	0.093	93	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Parameter	Units	3185234		3185235		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524831002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	2	20		
Barium	mg/L	0.023	0.1	0.1	0.12	0.12	93	96	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.084	0.085	84	85	75-125	1	20		
Boron	mg/L	0.52	1	1	1.4	1.4	88	85	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Chromium	mg/L	0.00064J	0.1	0.1	0.094	0.098	94	97	75-125	4	20		
Cobalt	mg/L	0.0055	0.1	0.1	0.095	0.099	90	94	75-125	4	20		
Lead	mg/L	0.00014J	0.1	0.1	0.092	0.094	92	94	75-125	2	20		
Lithium	mg/L	0.023J	0.1	0.1	0.11	0.11	85	88	75-125	2	20		
Molybdenum	mg/L	0.0021J	0.1	0.1	0.096	0.099	93	97	75-125	4	20		
Selenium	mg/L	0.0037J	0.1	0.1	0.093	0.096	90	93	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.090	0.093	90	92	75-125	3	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 604620 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831019, 92524831020, 92524831021, 92524831022, 92524831023

METHOD BLANK: 3185287 Matrix: Water
 Associated Lab Samples: 92524831019, 92524831020, 92524831021, 92524831022, 92524831023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00033J	0.0030	0.00028	03/09/21 14:19	
Arsenic	mg/L	ND	0.0050	0.00078	03/09/21 14:19	
Barium	mg/L	ND	0.0050	0.00071	03/09/21 14:19	
Beryllium	mg/L	ND	0.00050	0.000046	03/09/21 14:19	
Boron	mg/L	ND	0.040	0.0052	03/09/21 14:19	
Cadmium	mg/L	ND	0.00050	0.00012	03/09/21 14:19	
Chromium	mg/L	ND	0.0050	0.00055	03/09/21 14:19	
Cobalt	mg/L	ND	0.0050	0.00038	03/09/21 14:19	
Lead	mg/L	ND	0.0010	0.000036	03/09/21 14:19	
Lithium	mg/L	ND	0.030	0.00081	03/09/21 14:19	
Molybdenum	mg/L	ND	0.010	0.00069	03/09/21 14:19	
Selenium	mg/L	ND	0.0050	0.0016	03/09/21 14:19	
Thallium	mg/L	ND	0.0010	0.00014	03/09/21 14:19	

LABORATORY CONTROL SAMPLE: 3185288

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	0.094	94	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3185289 3185290

Parameter	Units	92525473001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Parameter	Units	3185289		3185290		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525473001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	ND	0.1	0.1	0.11	0.11	96	96	75-125	0	20		
Beryllium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Boron	mg/L	ND	1	1	1.0	0.96	100	94	75-125	6	20		
Cadmium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.097	0.096	96	96	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.099	0.096	98	95	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.089	0.090	89	90	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

QC Batch: 607169

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831024

METHOD BLANK: 3198666

Matrix: Water

Associated Lab Samples: 92524831024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00033J	0.0030	0.00028	03/17/21 15:11	
Arsenic	mg/L	ND	0.0050	0.00078	03/17/21 15:11	
Barium	mg/L	ND	0.0050	0.00071	03/17/21 15:11	
Beryllium	mg/L	ND	0.00050	0.000046	03/17/21 15:11	
Boron	mg/L	ND	0.040	0.0052	03/17/21 15:11	
Cadmium	mg/L	ND	0.00050	0.00012	03/17/21 15:11	
Chromium	mg/L	ND	0.0050	0.00055	03/17/21 15:11	
Cobalt	mg/L	ND	0.0050	0.00038	03/17/21 15:11	
Lead	mg/L	ND	0.0010	0.000036	03/17/21 15:11	
Lithium	mg/L	ND	0.030	0.00081	03/17/21 15:11	
Molybdenum	mg/L	ND	0.010	0.00069	03/17/21 15:11	
Selenium	mg/L	ND	0.0050	0.0016	03/17/21 15:11	
Thallium	mg/L	ND	0.0010	0.00014	03/17/21 15:11	

LABORATORY CONTROL SAMPLE: 3198667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198668 3198669

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524831026	Result	Conc.	Conc.							Result	Result
Antimony	mg/L		0.1	0.1	0.098	0.098	98	98	75-125	0	20
Arsenic	mg/L		0.1	0.1	0.099	0.10	98	100	75-125	2	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Parameter	Units	3198668		3198669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Barium	mg/L		0.1	0.1	0.12	0.12	99	100	75-125	1	20		
Beryllium	mg/L		0.1	0.1	0.092	0.092	87	87	75-125	0	20		
Boron	mg/L		1	1	4.3	4.4	78	86	75-125	2	20		
Cadmium	mg/L		0.1	0.1	0.10	0.10	96	97	75-125	1	20		
Chromium	mg/L		0.1	0.1	0.092	0.095	90	93	75-125	3	20		
Cobalt	mg/L	0.022	0.1	0.1	0.11	0.12	92	94	75-125	2	20		
Lead	mg/L		0.1	0.1	0.10	0.10	88	89	75-125	1	20		
Lithium	mg/L		0.1	0.1	0.12	0.12	87	92	75-125	3	20		
Molybdenum	mg/L		0.1	0.1	0.097	0.096	96	96	75-125	1	20		
Selenium	mg/L		0.1	0.1	0.11	0.11	104	105	75-125	1	20		
Thallium	mg/L		0.1	0.1	0.088	0.090	88	90	75-125	2	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

QC Batch:	604596	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831001, 92524831002, 92524831003, 92524831004, 92524831005, 92524831006, 92524831007, 92524831008, 92524831009, 92524831010, 92524831011

METHOD BLANK: 3185122 Matrix: Water

Associated Lab Samples: 92524831001, 92524831002, 92524831003, 92524831004, 92524831005, 92524831006, 92524831007, 92524831008, 92524831009, 92524831010, 92524831011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/08/21 13:02	

LABORATORY CONTROL SAMPLE: 3185123

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: 3185124 3185125

Parameter	Units	92524831001 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	0.0021	87	81	75-125	7	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

QC Batch: 604663

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831012, 92524831013, 92524831014, 92524831016, 92524831017, 92524831018, 92524831019, 92524831020

METHOD BLANK: 3185603

Matrix: Water

Associated Lab Samples: 92524831012, 92524831013, 92524831014, 92524831016, 92524831017, 92524831018, 92524831019, 92524831020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/08/21 14:27	

LABORATORY CONTROL SAMPLE: 3185604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3185605 3185606

Parameter	Units	3185605		3185606		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0022	95	88	75-125	7	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 604664 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831021, 92524831022, 92524831023

METHOD BLANK: 3185623 Matrix: Water
 Associated Lab Samples: 92524831021, 92524831022, 92524831023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/08/21 15:49	

LABORATORY CONTROL SAMPLE: 3185624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3185625 3185626

Parameter	Units	3185625		3185626		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0022	0.0019	86	78	75-125	10	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 605942	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831024

METHOD BLANK: 3192294 Matrix: Water
 Associated Lab Samples: 92524831024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/12/21 09:24	

LABORATORY CONTROL SAMPLE: 3192295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192296 3192297

Parameter	Units	3192296		3192297		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92525931011 ND	0.0025	0.0025	0.0024	0.0024	97	97	75-125	0	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 603554 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: 92524831001

METHOD BLANK: 3179650 Matrix: Water
 Associated Lab Samples: 92524831001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/02/21 15:40	

LABORATORY CONTROL SAMPLE: 3179651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	393	98	90-111	

SAMPLE DUPLICATE: 3179652

Parameter	Units	92524632011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	194	196	1	10	

SAMPLE DUPLICATE: 3179653

Parameter	Units	92524632016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	128	129	1	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 604300 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: 92524831002, 92524831003, 92524831004, 92524831005, 92524831006, 92524831007, 92524831008, 92524831009, 92524831010, 92524831011, 92524831012, 92524831013, 92524831014

METHOD BLANK: 3183609 Matrix: Water
 Associated Lab Samples: 92524831002, 92524831003, 92524831004, 92524831005, 92524831006, 92524831007, 92524831008, 92524831009, 92524831010, 92524831011, 92524831012, 92524831013, 92524831014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/04/21 14:27	

LABORATORY CONTROL SAMPLE: 3183610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3183611

Parameter	Units	92525102001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	175	171	2	10	

SAMPLE DUPLICATE: 3183612

Parameter	Units	92524831010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	513	520	1	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 604626 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: 92524831016, 92524831017, 92524831018, 92524831019, 92524831020, 92524831021, 92524831022, 92524831023

METHOD BLANK: 3185317 Matrix: Water
 Associated Lab Samples: 92524831016, 92524831017, 92524831018, 92524831019, 92524831020, 92524831021, 92524831022, 92524831023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 15:33	

LABORATORY CONTROL SAMPLE: 3185318

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

SAMPLE DUPLICATE: 3185319

Parameter	Units	92525822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	290	6	10	

SAMPLE DUPLICATE: 3185328

Parameter	Units	92524831016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	325	354	9	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 605136 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: 92524831024

METHOD BLANK: 3187989 Matrix: Water
 Associated Lab Samples: 92524831024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/09/21 16:18	

LABORATORY CONTROL SAMPLE: 3187990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	90-111	

SAMPLE DUPLICATE: 3187991

Parameter	Units	92525375013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3187992

Parameter	Units	92524831030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	234	232	1	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 604543 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: 92524831001

METHOD BLANK: 3184704 Matrix: Water
 Associated Lab Samples: 92524831001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/06/21 12:54	
Fluoride	mg/L	ND	0.10	0.050	03/06/21 12:54	
Sulfate	mg/L	ND	1.0	0.50	03/06/21 12:54	

LABORATORY CONTROL SAMPLE: 3184705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184706 3184707

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92523440025	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.6	50	50	50.5	51.7	96	98	90-110	2	10		
Fluoride	mg/L	0.13	2.5	2.5	2.6	2.7	100	102	90-110	2	10		
Sulfate	mg/L	ND	50	50	48.5	49.7	96	99	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184708 3184709

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524853002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	8.3	50	50	57.2	57.0	98	97	90-110	0	10		
Fluoride	mg/L	0.26	2.5	2.5	2.8	2.8	101	101	90-110	0	10		
Sulfate	mg/L	42.4	50	50	91.1	90.9	97	97	90-110	0	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

QC Batch:	605465	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: 92524831002, 92524831003, 92524831004, 92524831005, 92524831006, 92524831007, 92524831008

METHOD BLANK: 3189694 Matrix: Water
 Associated Lab Samples: 92524831002, 92524831003, 92524831004, 92524831005, 92524831006, 92524831007, 92524831008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/11/21 23:04	
Fluoride	mg/L	ND	0.10	0.050	03/11/21 23:04	
Sulfate	mg/L	ND	1.0	0.50	03/11/21 23:04	

LABORATORY CONTROL SAMPLE: 3189695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189696 3189697

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526541001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	1.3	50	50	48.9	56.2	95	110	90-110	14	10	R1	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.9	97	113	90-110	15	10	M1,R1	
Sulfate	mg/L	9.8	50	50	58.6	65.8	98	112	90-110	12	10	M1,R1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189698 3189699

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526574005	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.3	50	50	54.7	52.6	101	97	90-110	4	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.5	101	98	90-110	3	10		
Sulfate	mg/L	4.3	50	50	55.1	53.2	102	98	90-110	3	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 606038 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92524831009, 92524831010, 92524831011, 92524831012, 92524831013, 92524831014

METHOD BLANK: 3192959 Matrix: Water
 Associated Lab Samples: 92524831009, 92524831010, 92524831011, 92524831012, 92524831013, 92524831014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/12/21 00:26	
Fluoride	mg/L	ND	0.10	0.050	03/12/21 00:26	
Sulfate	mg/L	ND	1.0	0.50	03/12/21 00:26	

LABORATORY CONTROL SAMPLE: 3192960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.8	106	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	54.5	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192961 3192962

Parameter	Units	92526606002		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	68.3	50	50	100	102	64	67	90-110	2	10	M1	
Fluoride	mg/L	0.34	2.5	2.5	2.5	2.5	85	87	90-110	2	10	M1	
Sulfate	mg/L	95.3	50	50	128	130	65	68	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192963 3192964

Parameter	Units	92525375001		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	3.7	50	50	47.1	46.1	87	85	90-110	2	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.2	2.2	89	87	90-110	2	10	M1	
Sulfate	mg/L	0.51J	50	50	45.8	44.7	91	88	90-110	2	10	M1	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

QC Batch:	606452	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92524831016, 92524831017, 92524831018, 92524831019, 92524831020, 92524831021, 92524831022, 92524831023		

METHOD BLANK:	3195118	Matrix:	Water
Associated Lab Samples:	92524831016, 92524831017, 92524831018, 92524831019, 92524831020, 92524831021, 92524831022, 92524831023		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 11:23	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 11:23	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 11:23	

LABORATORY CONTROL SAMPLE: 3195119						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	53.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195120												3195121	
Parameter	Units	92524831015		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Chloride	mg/L	8.3	50	50	61.2	62.7	106	109	90-110	2	10
Fluoride	mg/L	0.34	2.5	2.5	4.0	4.0	148	147	90-110	1	10	M1	
Sulfate	mg/L	225	50	50	267	269	84	87	90-110	1	10	M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195122												3195123	
Parameter	Units	92524831022		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Chloride	mg/L	2.9	50	50	56.8	57.0	108	108	90-110	0	10
Fluoride	mg/L	0.71	2.5	2.5	4.6	4.7	154	158	90-110	2	10	M1	
Sulfate	mg/L	143	50	50	193	193	100	100	90-110	0	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

QC Batch: 606497 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92524831024

METHOD BLANK: 3195321 Matrix: Water
 Associated Lab Samples: 92524831024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/15/21 05:49	
Fluoride	mg/L	ND	0.10	0.050	03/15/21 05:49	
Sulfate	mg/L	ND	1.0	0.50	03/15/21 05:49	

LABORATORY CONTROL SAMPLE: 3195322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.1	92	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	45.3	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195323 3195324

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525919013 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.9	50	50	56.7	55.0	102	98	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.4	99	97	90-110	3	10		
Sulfate	mg/L	38.9	50	50	90.2	88.6	103	99	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195325 3195326

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525657006 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.8	50	50	55.5	56.0	100	100	90-110	1	10		
Fluoride	mg/L	0.076J	2.5	2.5	2.6	2.7	103	103	90-110	0	10		
Sulfate	mg/L	251	50	50	293	305	83	108	90-110	4	10 M6		

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-234

Pace Project No.: 92524831

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234

Pace Project No.: 92524831

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524831001	DGWC-4				
92524831002	DGWC-2				
92524831003	DGWC-5				
92524831004	DGWC-8				
92524831005	DGWC-9				
92524831006	DGWC-11				
92524831007	DGWC-13				
92524831008	DGWC-14				
92524831009	DGWC-15				
92524831010	DGWC-19				
92524831011	DGWC-20				
92524831016	DGWC-12				
92524831017	DGWC-17				
92524831018	DGWC-21				
92524831019	DGWC-22				
92524831020	DGWC-23				
92524831021	DGWC-42				
92524831022	DGWC-47				
92524831023	DGWC-48				
92524831024	DGWC-10				
92524831001	DGWC-4	EPA 3010A	603832	EPA 6010D	603942
92524831002	DGWC-2	EPA 3010A	604550	EPA 6010D	604640
92524831003	DGWC-5	EPA 3010A	604550	EPA 6010D	604640
92524831004	DGWC-8	EPA 3010A	604550	EPA 6010D	604640
92524831005	DGWC-9	EPA 3010A	604550	EPA 6010D	604640
92524831006	DGWC-11	EPA 3010A	604550	EPA 6010D	604640
92524831007	DGWC-13	EPA 3010A	604550	EPA 6010D	604640
92524831008	DGWC-14	EPA 3010A	604550	EPA 6010D	604640
92524831009	DGWC-15	EPA 3010A	604554	EPA 6010D	604641
92524831010	DGWC-19	EPA 3010A	604554	EPA 6010D	604641
92524831011	DGWC-20	EPA 3010A	604554	EPA 6010D	604641
92524831012	DUP-1	EPA 3010A	604554	EPA 6010D	604641
92524831013	FB-1	EPA 3010A	604554	EPA 6010D	604641
92524831014	EB-1	EPA 3010A	604554	EPA 6010D	604641
92524831016	DGWC-12	EPA 3010A	604554	EPA 6010D	604641
92524831017	DGWC-17	EPA 3010A	604554	EPA 6010D	604641
92524831018	DGWC-21	EPA 3010A	604554	EPA 6010D	604641
92524831019	DGWC-22	EPA 3010A	604561	EPA 6010D	604650
92524831020	DGWC-23	EPA 3010A	604561	EPA 6010D	604650
92524831021	DGWC-42	EPA 3010A	604561	EPA 6010D	604650
92524831022	DGWC-47	EPA 3010A	604561	EPA 6010D	604650
92524831023	DGWC-48	EPA 3010A	604561	EPA 6010D	604650
92524831024	DGWC-10	EPA 3010A	607149	EPA 6010D	607253
92524831001	DGWC-4	EPA 3005A	603841	EPA 6020B	603947
92524831002	DGWC-2	EPA 3005A	604612	EPA 6020B	604686

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524831003	DGWC-5	EPA 3005A	604612	EPA 6020B	604686
92524831004	DGWC-8	EPA 3005A	604612	EPA 6020B	604686
92524831005	DGWC-9	EPA 3005A	604612	EPA 6020B	604686
92524831006	DGWC-11	EPA 3005A	604612	EPA 6020B	604686
92524831007	DGWC-13	EPA 3005A	604612	EPA 6020B	604686
92524831008	DGWC-14	EPA 3005A	604612	EPA 6020B	604686
92524831009	DGWC-15	EPA 3005A	604612	EPA 6020B	604686
92524831010	DGWC-19	EPA 3005A	604612	EPA 6020B	604686
92524831011	DGWC-20	EPA 3005A	604612	EPA 6020B	604686
92524831012	DUP-1	EPA 3005A	604612	EPA 6020B	604686
92524831013	FB-1	EPA 3005A	604612	EPA 6020B	604686
92524831014	EB-1	EPA 3005A	604612	EPA 6020B	604686
92524831016	DGWC-12	EPA 3005A	604612	EPA 6020B	604686
92524831017	DGWC-17	EPA 3005A	604612	EPA 6020B	604686
92524831018	DGWC-21	EPA 3005A	604612	EPA 6020B	604686
92524831019	DGWC-22	EPA 3005A	604620	EPA 6020B	604695
92524831020	DGWC-23	EPA 3005A	604620	EPA 6020B	604695
92524831021	DGWC-42	EPA 3005A	604620	EPA 6020B	604695
92524831022	DGWC-47	EPA 3005A	604620	EPA 6020B	604695
92524831023	DGWC-48	EPA 3005A	604620	EPA 6020B	604695
92524831024	DGWC-10	EPA 3005A	607169	EPA 6020B	607293
92524831001	DGWC-4	EPA 7470A	604596	EPA 7470A	604882
92524831002	DGWC-2	EPA 7470A	604596	EPA 7470A	604882
92524831003	DGWC-5	EPA 7470A	604596	EPA 7470A	604882
92524831004	DGWC-8	EPA 7470A	604596	EPA 7470A	604882
92524831005	DGWC-9	EPA 7470A	604596	EPA 7470A	604882
92524831006	DGWC-11	EPA 7470A	604596	EPA 7470A	604882
92524831007	DGWC-13	EPA 7470A	604596	EPA 7470A	604882
92524831008	DGWC-14	EPA 7470A	604596	EPA 7470A	604882
92524831009	DGWC-15	EPA 7470A	604596	EPA 7470A	604882
92524831010	DGWC-19	EPA 7470A	604596	EPA 7470A	604882
92524831011	DGWC-20	EPA 7470A	604596	EPA 7470A	604882
92524831012	DUP-1	EPA 7470A	604663	EPA 7470A	604884
92524831013	FB-1	EPA 7470A	604663	EPA 7470A	604884
92524831014	EB-1	EPA 7470A	604663	EPA 7470A	604884
92524831016	DGWC-12	EPA 7470A	604663	EPA 7470A	604884
92524831017	DGWC-17	EPA 7470A	604663	EPA 7470A	604884
92524831018	DGWC-21	EPA 7470A	604663	EPA 7470A	604884
92524831019	DGWC-22	EPA 7470A	604663	EPA 7470A	604884
92524831020	DGWC-23	EPA 7470A	604663	EPA 7470A	604884
92524831021	DGWC-42	EPA 7470A	604664	EPA 7470A	604885
92524831022	DGWC-47	EPA 7470A	604664	EPA 7470A	604885
92524831023	DGWC-48	EPA 7470A	604664	EPA 7470A	604885
92524831024	DGWC-10	EPA 7470A	605942	EPA 7470A	606185
92524831001	DGWC-4	SM 2540C-2011	603554		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234
 Pace Project No.: 92524831

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524831002	DGWC-2	SM 2540C-2011	604300		
92524831003	DGWC-5	SM 2540C-2011	604300		
92524831004	DGWC-8	SM 2540C-2011	604300		
92524831005	DGWC-9	SM 2540C-2011	604300		
92524831006	DGWC-11	SM 2540C-2011	604300		
92524831007	DGWC-13	SM 2540C-2011	604300		
92524831008	DGWC-14	SM 2540C-2011	604300		
92524831009	DGWC-15	SM 2540C-2011	604300		
92524831010	DGWC-19	SM 2540C-2011	604300		
92524831011	DGWC-20	SM 2540C-2011	604300		
92524831012	DUP-1	SM 2540C-2011	604300		
92524831013	FB-1	SM 2540C-2011	604300		
92524831014	EB-1	SM 2540C-2011	604300		
92524831016	DGWC-12	SM 2540C-2011	604626		
92524831017	DGWC-17	SM 2540C-2011	604626		
92524831018	DGWC-21	SM 2540C-2011	604626		
92524831019	DGWC-22	SM 2540C-2011	604626		
92524831020	DGWC-23	SM 2540C-2011	604626		
92524831021	DGWC-42	SM 2540C-2011	604626		
92524831022	DGWC-47	SM 2540C-2011	604626		
92524831023	DGWC-48	SM 2540C-2011	604626		
92524831024	DGWC-10	SM 2540C-2011	605136		
92524831001	DGWC-4	EPA 300.0 Rev 2.1 1993	604543		
92524831002	DGWC-2	EPA 300.0 Rev 2.1 1993	605465		
92524831003	DGWC-5	EPA 300.0 Rev 2.1 1993	605465		
92524831004	DGWC-8	EPA 300.0 Rev 2.1 1993	605465		
92524831005	DGWC-9	EPA 300.0 Rev 2.1 1993	605465		
92524831006	DGWC-11	EPA 300.0 Rev 2.1 1993	605465		
92524831007	DGWC-13	EPA 300.0 Rev 2.1 1993	605465		
92524831008	DGWC-14	EPA 300.0 Rev 2.1 1993	605465		
92524831009	DGWC-15	EPA 300.0 Rev 2.1 1993	606038		
92524831010	DGWC-19	EPA 300.0 Rev 2.1 1993	606038		
92524831011	DGWC-20	EPA 300.0 Rev 2.1 1993	606038		
92524831012	DUP-1	EPA 300.0 Rev 2.1 1993	606038		
92524831013	FB-1	EPA 300.0 Rev 2.1 1993	606038		
92524831014	EB-1	EPA 300.0 Rev 2.1 1993	606038		
92524831016	DGWC-12	EPA 300.0 Rev 2.1 1993	606452		
92524831017	DGWC-17	EPA 300.0 Rev 2.1 1993	606452		
92524831018	DGWC-21	EPA 300.0 Rev 2.1 1993	606452		
92524831019	DGWC-22	EPA 300.0 Rev 2.1 1993	606452		
92524831020	DGWC-23	EPA 300.0 Rev 2.1 1993	606452		
92524831021	DGWC-42	EPA 300.0 Rev 2.1 1993	606452		
92524831022	DGWC-47	EPA 300.0 Rev 2.1 1993	606452		
92524831023	DGWC-48	EPA 300.0 Rev 2.1 1993	606452		
92524831024	DGWC-10	EPA 300.0 Rev 2.1 1993	606497		

REPORT OF LABORATORY ANALYSIS

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Document Name:
 New Job Creation Loan Package (Call)
 Opn. 10/1/00
 Loan # 92524831

Document Revised: October 28, 2000
 Page 3 of 3
 Printing Instructions:
 Pace Analytical Quality Office

Laundry facilities samples:

Ashville Eden Greenwood Hendersonville Raleigh Mechanicsville Atlanta Kernersville

Customer Name:
 Project #

Client Name:
 Project # **WON: 92524831**
 County: Guilford
 City: Greensboro Winston-Salem High Point Other: _____



Current Job Request? Yes No
 In Request? Yes No

Work Order Number/Status of Current Job: 302 / H

Existing Material: No Yes Other Other

Material Type or Analysis? Yes No

Thermometer: No Yes
 Temp: 23.4 Type of Job: Other New

Cooler Temp: 1.1 Correction Factor: ASAP/Standard (C) 1.0

Temp: 1.1 above freezing (50°F)
 Temperature of sample is not provided as cooling medium has failed

Cooler Temp Correction (C): 1.5
 LOD/RL Required? Yes No

Can sample container be re-used? Yes with a new label (Yes/No) or No? (Yes/No) Yes No
 Use sample bag from other analysis? (Yes/No) Yes No

Req.	Yes	No	Other	Count
Copy of Safety Manual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Job Site marked with a Trip Flag?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Shovel Marked with Job #?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
Mark Sample Area of Job Request?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Set Safety Material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Collect Sample (20g)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Place Sample in Bag?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Transfer Sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
Lab/Store Analysis Sample Field Request?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9
Sample Label Match OK?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Include Cool Temp (if Analyze) Metric	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11
Change job to 10A (if 10A Analyze)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12
Job Book Review?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13
Tr. Mark Capacity Job's Process?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14

Comments/Remarks: _____
 Material Requested: Yes No

Quality Control Resolution

Person(s) Initial: _____ Date/Time: _____

Project Manager Initial/Phone: _____ Call: _____

Project Manager Initial/Phone: _____ Date: _____

Page:

CHALLENGE QUALIFY ANALYTICAL REQUEST DOCUMENT
 This form is to be used by the Analyst to document the analytical process.

Requested By: _____ Date: _____
 Requested For: _____
 Requested By Title: _____
 Requested For Title: _____
 Requested By Department: _____
 Requested For Department: _____
 Requested By Location: _____
 Requested For Location: _____
 Requested By Phone: _____
 Requested For Phone: _____
 Requested By Email: _____
 Requested For Email: _____
 Requested By Fax: _____
 Requested For Fax: _____
 Requested By Address: _____
 Requested For Address: _____
 Requested By City: _____
 Requested For City: _____
 Requested By State: _____
 Requested For State: _____
 Requested By Zip: _____
 Requested For Zip: _____
 Requested By Country: _____
 Requested For Country: _____

Requester Information		Request Information		Request Status		Request Details	
Name	Phone	Request Number	Request Date	Request Status	Request Description	Request Priority	Request Comments
1	800-411-1234	1001	10/1/01	Request	Request for analysis of sample 1001	1001	Request for analysis of sample 1001
2	800-411-1234	1002	10/1/01	Request	Request for analysis of sample 1002	1002	Request for analysis of sample 1002
3	800-411-1234	1003	10/1/01	Request	Request for analysis of sample 1003	1003	Request for analysis of sample 1003
4	800-411-1234	1004	10/1/01	Request	Request for analysis of sample 1004	1004	Request for analysis of sample 1004
5	800-411-1234	1005	10/1/01	Request	Request for analysis of sample 1005	1005	Request for analysis of sample 1005
6	800-411-1234	1006	10/1/01	Request	Request for analysis of sample 1006	1006	Request for analysis of sample 1006
7	800-411-1234	1007	10/1/01	Request	Request for analysis of sample 1007	1007	Request for analysis of sample 1007
8	800-411-1234	1008	10/1/01	Request	Request for analysis of sample 1008	1008	Request for analysis of sample 1008
9	800-411-1234	1009	10/1/01	Request	Request for analysis of sample 1009	1009	Request for analysis of sample 1009
10	800-411-1234	1010	10/1/01	Request	Request for analysis of sample 1010	1010	Request for analysis of sample 1010
11	800-411-1234	1011	10/1/01	Request	Request for analysis of sample 1011	1011	Request for analysis of sample 1011
12	800-411-1234	1012	10/1/01	Request	Request for analysis of sample 1012	1012	Request for analysis of sample 1012
13	800-411-1234	1013	10/1/01	Request	Request for analysis of sample 1013	1013	Request for analysis of sample 1013
14	800-411-1234	1014	10/1/01	Request	Request for analysis of sample 1014	1014	Request for analysis of sample 1014
15	800-411-1234	1015	10/1/01	Request	Request for analysis of sample 1015	1015	Request for analysis of sample 1015
16	800-411-1234	1016	10/1/01	Request	Request for analysis of sample 1016	1016	Request for analysis of sample 1016
17	800-411-1234	1017	10/1/01	Request	Request for analysis of sample 1017	1017	Request for analysis of sample 1017
18	800-411-1234	1018	10/1/01	Request	Request for analysis of sample 1018	1018	Request for analysis of sample 1018
19	800-411-1234	1019	10/1/01	Request	Request for analysis of sample 1019	1019	Request for analysis of sample 1019
20	800-411-1234	1020	10/1/01	Request	Request for analysis of sample 1020	1020	Request for analysis of sample 1020
21	800-411-1234	1021	10/1/01	Request	Request for analysis of sample 1021	1021	Request for analysis of sample 1021
22	800-411-1234	1022	10/1/01	Request	Request for analysis of sample 1022	1022	Request for analysis of sample 1022
23	800-411-1234	1023	10/1/01	Request	Request for analysis of sample 1023	1023	Request for analysis of sample 1023
24	800-411-1234	1024	10/1/01	Request	Request for analysis of sample 1024	1024	Request for analysis of sample 1024
25	800-411-1234	1025	10/1/01	Request	Request for analysis of sample 1025	1025	Request for analysis of sample 1025
26	800-411-1234	1026	10/1/01	Request	Request for analysis of sample 1026	1026	Request for analysis of sample 1026
27	800-411-1234	1027	10/1/01	Request	Request for analysis of sample 1027	1027	Request for analysis of sample 1027
28	800-411-1234	1028	10/1/01	Request	Request for analysis of sample 1028	1028	Request for analysis of sample 1028
29	800-411-1234	1029	10/1/01	Request	Request for analysis of sample 1029	1029	Request for analysis of sample 1029
30	800-411-1234	1030	10/1/01	Request	Request for analysis of sample 1030	1030	Request for analysis of sample 1030

Approved: _____
 Date: _____
 Signature: _____
 Title: _____

200

CHAMBER OF COMMERCE (Annual Report) (Account)

Section 1

Section 2

Section 3

Header information including company name, address, and contact details.

Table with columns for Description, Quantity, Unit, and Price. Includes a 'SAMPLE NO' section.

Main data table with multiple columns for item details, quantities, and prices.

10/10/17

CHAMBERLAIN COUNTY PHYSICAL ANALYSIS DEPARTMENT
 101 Chamberlains Blvd, Suite 100, Rock Hill, SC 29730

Page 1 of 1

Sample ID:
 Date:
 Location:
 Operator:
 Analyst:
 Method:
 Instrument:
 Reagents:
 Standards:
 Quality Control:
 Comments:

Sample ID	Description	Date	Location	Operator	Concentration		Recovery		Notes
					mg/L	%	mg/L	%	
1	Sample 1	10/10/17							
2	Sample 2	10/10/17							
3	Sample 3	10/10/17							
4	Sample 4	10/10/17							
5	Sample 5	10/10/17							
6	Sample 6	10/10/17							
7	Sample 7	10/10/17							
8	Sample 8	10/10/17							
9	Sample 9	10/10/17							
10	Sample 10	10/10/17							

Sample ID	Description	Date	Location	Operator	Concentration (mg/L)	Recovery (%)	Notes
1	Sample 1	10/10/17					
2	Sample 2	10/10/17					
3	Sample 3	10/10/17					
4	Sample 4	10/10/17					
5	Sample 5	10/10/17					
6	Sample 6	10/10/17					
7	Sample 7	10/10/17					
8	Sample 8	10/10/17					
9	Sample 9	10/10/17					
10	Sample 10	10/10/17					



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

Page 1 of 2

Requester Information		Requestor Information		Requestee Information	
Requester Name	Requester Title	Requestor Name	Requestor Title	Requestee Name	Requestee Title
Requester Organization		Requestor Organization		Requestee Organization	
Requester Address		Requestor Address		Requestee Address	
Requester Phone		Requestor Phone		Requestee Phone	
Requester Email		Requestor Email		Requestee Email	
Requester Signature		Requestor Signature		Requestee Signature	
Requester Date		Requestor Date		Requestee Date	

ITEM #	DESCRIPTION OF SAMPLE	DATE RECEIVED	TIME RECEIVED	BY WHOM RECEIVED	INITIALS	ANALYSIS TESTS		ANALYSIS DATE	BY WHOM ANALYZED	INITIALS	REMARKS
						TEST 1	TEST 2				
1	SAMPLE ID See Attached per Item # (242, 243, 244) Samples are sent to Analytical	24/01/2018	10:30	ANALYST	[Signature]	✓	✓	24/01/2018	ANALYST	[Signature]	Initials: [Signature]
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

TEST # 12

Received as per: (Y/N)
Correctly stored: (Y/N)
Sample sealed: (Y/N)



May 13, 2021

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

RE: Project: DGWC WELLS IONS
Pace Project No.: 92531212

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: 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: DGWC WELLS IONS

Pace Project No.: 92531212

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: DGWC WELLS IONS
Pace Project No.: 92531212

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524836001	DGWC-4	Water	03/01/21 16:40	03/02/21 08:45
92524836002	DGWC-2	Water	03/02/21 10:38	03/03/21 11:10
92524836003	DGWC-5	Water	03/02/21 10:15	03/03/21 11:10
92524836004	DGWC-8	Water	03/02/21 16:15	03/03/21 11:10
92524836005	DGWC-9	Water	03/02/21 15:23	03/03/21 11:10
92524836006	DGWC-11	Water	03/02/21 16:20	03/03/21 11:10
92524836007	DGWC-13	Water	03/02/21 14:37	03/03/21 11:10
92524836008	DGWC-14	Water	03/02/21 11:44	03/03/21 11:10
92524836009	DGWC-15	Water	03/02/21 10:22	03/03/21 11:10
92524836010	DGWC-19	Water	03/02/21 13:30	03/03/21 11:10
92524836011	DGWC-20	Water	03/02/21 16:13	03/03/21 11:10
92524836012	DUP-1	Water	03/02/21 00:00	03/03/21 11:10
92524836013	FB-1	Water	03/02/21 10:32	03/03/21 11:10
92524836014	EB-1	Water	03/02/21 10:45	03/03/21 11:10
92524836016	DGWC-12	Water	03/03/21 12:20	03/04/21 09:00
92524836017	DGWC-17	Water	03/03/21 16:55	03/04/21 09:00
92524836018	DGWC-21	Water	03/03/21 12:56	03/04/21 09:00
92524836019	DGWC-22	Water	03/03/21 14:26	03/04/21 09:00
92524836020	DGWC-23	Water	03/03/21 16:22	03/04/21 09:00
92524836021	DGWC-42	Water	03/03/21 14:09	03/04/21 09:00
92524836022	DGWC-47	Water	03/03/21 11:45	03/04/21 09:00
92524836023	DGWC-48	Water	03/03/21 10:07	03/04/21 09:00
92524836024	DGWC-10	Water	03/04/21 13:20	03/05/21 16:16

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SAMPLE ANALYTE COUNT

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524836001	DGWC-4	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836002	DGWC-2	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836003	DGWC-5	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836004	DGWC-8	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836005	DGWC-9	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836006	DGWC-11	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836007	DGWC-13	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836008	DGWC-14	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836009	DGWC-15	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836010	DGWC-19	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836011	DGWC-20	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836012	DUP-1	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836013	FB-1	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836014	EB-1	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836016	DGWC-12	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836017	DGWC-17	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836018	DGWC-21	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836019	DGWC-22	EPA 6010D	KH	3
		SM 2320B-2011	ECH	3
92524836020	DGWC-23	EPA 6010D	KH	3

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SAMPLE ANALYTE COUNT

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524836021	DGWC-42	SM 2320B-2011	ECH	3
		EPA 6010D	KH	3
92524836022	DGWC-47	SM 2320B-2011	ECH	3
		EPA 6010D	KH	3
92524836023	DGWC-48	SM 2320B-2011	ECH	3
		EPA 6010D	KH	3
92524836024	DGWC-10	SM 2320B-2011	ECH	3
		EPA 6010D	DRB	3
		SM 2320B-2011	ECH	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: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-4 **Lab ID: 92524836001** Collected: 03/01/21 16:40 Received: 03/02/21 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.82	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	10.4	mg/L	0.20	0.056	1	03/03/21 10:17	03/03/21 17:39	7440-09-7	
Sodium	63.0	mg/L	1.0	0.26	1	03/03/21 10:17	03/03/21 17:39	7440-23-5	
Magnesium	39.0	mg/L	0.050	0.0076	1	03/03/21 10:17	03/03/21 17:39	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	151	mg/L	5.0	5.0	1		03/12/21 15:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 15:47		
Alkalinity, Total as CaCO3	151	mg/L	5.0	5.0	1		03/12/21 15:47		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-2 **Lab ID: 92524836002** Collected: 03/02/21 10:38 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	6.01	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.1	mg/L	0.20	0.056	1	03/05/21 10:53	03/09/21 23:44	7440-09-7	
Sodium	10.5	mg/L	1.0	0.26	1	03/05/21 10:53	03/09/21 23:44	7440-23-5	
Magnesium	9.5	mg/L	0.050	0.0076	1	03/05/21 10:53	03/09/21 23:44	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	55.5	mg/L	5.0	5.0	1		03/12/21 17:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 17:36		
Alkalinity, Total as CaCO3	55.5	mg/L	5.0	5.0	1		03/12/21 17:36		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-5 **Lab ID: 92524836003** Collected: 03/02/21 10:15 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.00	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.4	mg/L	0.20	0.056	1	03/05/21 10:53	03/10/21 00:14	7440-09-7	
Sodium	19.1	mg/L	1.0	0.26	1	03/05/21 10:53	03/10/21 00:14	7440-23-5	
Magnesium	23.9	mg/L	0.050	0.0076	1	03/05/21 10:53	03/10/21 00:14	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	9.4	mg/L	5.0	5.0	1		03/12/21 17:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 17:43		
Alkalinity, Total as CaCO3	9.4	mg/L	5.0	5.0	1		03/12/21 17:43		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-8 **Lab ID: 92524836004** Collected: 03/02/21 16:15 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	6.60	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.6	mg/L	0.20	0.056	1	03/05/21 10:53	03/10/21 00:19	7440-09-7	
Sodium	13.2	mg/L	1.0	0.26	1	03/05/21 10:53	03/10/21 00:19	7440-23-5	
Magnesium	17.4	mg/L	0.050	0.0076	1	03/05/21 10:53	03/10/21 00:19	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	6.0	mg/L	5.0	5.0	1		03/12/21 17:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 17:48		
Alkalinity, Total as CaCO3	6.0	mg/L	5.0	5.0	1		03/12/21 17:48		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-9 **Lab ID: 92524836005** Collected: 03/02/21 15:23 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	3.99	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.3	mg/L	0.20	0.056	1	03/05/21 10:53	03/10/21 00:23	7440-09-7	
Sodium	28.4	mg/L	1.0	0.26	1	03/05/21 10:53	03/10/21 00:23	7440-23-5	
Magnesium	6.7	mg/L	0.050	0.0076	1	03/05/21 10:53	03/10/21 00:23	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 17:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 17:53		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/12/21 17:53		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-11 **Lab ID: 92524836006** Collected: 03/02/21 16:20 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.59	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.7	mg/L	0.20	0.056	1	03/05/21 10:53	03/10/21 00:28	7440-09-7	
Sodium	20.3	mg/L	1.0	0.26	1	03/05/21 10:53	03/10/21 00:28	7440-23-5	
Magnesium	26.7	mg/L	0.050	0.0076	1	03/05/21 10:53	03/10/21 00:28	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	10.9	mg/L	5.0	5.0	1		03/12/21 17:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 17:56		
Alkalinity, Total as CaCO3	10.9	mg/L	5.0	5.0	1		03/12/21 17:56		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-13 **Lab ID: 92524836007** Collected: 03/02/21 14:37 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.68	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.6	mg/L	0.20	0.056	1	03/05/21 10:53	03/10/21 00:33	7440-09-7	
Sodium	23.7	mg/L	1.0	0.26	1	03/05/21 10:53	03/10/21 00:33	7440-23-5	
Magnesium	8.2	mg/L	0.050	0.0076	1	03/05/21 10:53	03/10/21 00:33	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	23.5	mg/L	5.0	5.0	1		03/12/21 18:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:01		
Alkalinity, Total as CaCO3	23.5	mg/L	5.0	5.0	1		03/12/21 18:01		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-14 **Lab ID: 92524836008** Collected: 03/02/21 11:44 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.69	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.4	mg/L	0.20	0.056	1	03/05/21 10:53	03/10/21 00:38	7440-09-7	
Sodium	7.0	mg/L	1.0	0.26	1	03/05/21 10:53	03/10/21 00:38	7440-23-5	
Magnesium	5.0	mg/L	0.050	0.0076	1	03/05/21 10:53	03/10/21 00:38	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	15.1	mg/L	5.0	5.0	1		03/12/21 18:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:07		
Alkalinity, Total as CaCO3	15.1	mg/L	5.0	5.0	1		03/12/21 18:07		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-15 **Lab ID: 92524836009** Collected: 03/02/21 10:22 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.81	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.5	mg/L	0.20	0.056	1	03/05/21 10:52	03/09/21 12:41	7440-09-7	
Sodium	22.2	mg/L	1.0	0.26	1	03/05/21 10:52	03/09/21 12:41	7440-23-5	
Magnesium	15.4	mg/L	0.050	0.0076	1	03/05/21 10:52	03/09/21 12:41	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	15.6	mg/L	5.0	5.0	1		03/12/21 18:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:13		
Alkalinity, Total as CaCO3	15.6	mg/L	5.0	5.0	1		03/12/21 18:13		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-19 **Lab ID: 92524836010** Collected: 03/02/21 13:30 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	4.84	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.9	mg/L	0.20	0.056	1	03/05/21 10:52	03/09/21 13:00	7440-09-7	
Sodium	33.2	mg/L	1.0	0.26	1	03/05/21 10:52	03/09/21 13:00	7440-23-5	
Magnesium	12.2	mg/L	0.050	0.0076	1	03/05/21 10:52	03/09/21 13:00	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:19		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/12/21 18:19		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-20 **Lab ID: 92524836011** Collected: 03/02/21 16:13 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	4.45	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	9.6	mg/L	0.20	0.056	1	03/05/21 10:52	03/09/21 13:05	7440-09-7	
Sodium	17.9	mg/L	1.0	0.26	1	03/05/21 10:52	03/09/21 13:05	7440-23-5	
Magnesium	22.3	mg/L	0.050	0.0076	1	03/05/21 10:52	03/09/21 13:05	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:24		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/12/21 18:24		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DUP-1 **Lab ID: 92524836012** Collected: 03/02/21 00:00 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.5	mg/L	0.20	0.056	1	03/05/21 10:52	03/09/21 13:10	7440-09-7	
Sodium	22.1	mg/L	1.0	0.26	1	03/05/21 10:52	03/09/21 13:10	7440-23-5	
Magnesium	15.5	mg/L	0.050	0.0076	1	03/05/21 10:52	03/09/21 13:10	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	16.6	mg/L	5.0	5.0	1		03/12/21 18:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:40		
Alkalinity, Total as CaCO3	16.6	mg/L	5.0	5.0	1		03/12/21 18:40		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: FB-1 **Lab ID: 92524836013** Collected: 03/02/21 10:32 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	0.068J	mg/L	0.20	0.056	1	03/05/21 10:52	03/09/21 13:15	7440-09-7	
Sodium	ND	mg/L	1.0	0.26	1	03/05/21 10:52	03/09/21 13:15	7440-23-5	
Magnesium	ND	mg/L	0.050	0.0076	1	03/05/21 10:52	03/09/21 13:15	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:46		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/12/21 18:46		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: EB-1 **Lab ID: 92524836014** Collected: 03/02/21 10:45 Received: 03/03/21 11:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.056	1	03/05/21 10:52	03/09/21 13:30	7440-09-7	
Sodium	ND	mg/L	1.0	0.26	1	03/05/21 10:52	03/09/21 13:30	7440-23-5	
Magnesium	0.0081J	mg/L	0.050	0.0076	1	03/05/21 10:52	03/09/21 13:30	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 18:50		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/12/21 18:50		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-12 **Lab ID: 92524836016** Collected: 03/03/21 12:20 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	6.13	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.2	mg/L	0.20	0.056	1	03/05/21 10:52	03/09/21 13:39	7440-09-7	
Sodium	14.8	mg/L	1.0	0.26	1	03/05/21 10:52	03/09/21 13:39	7440-23-5	
Magnesium	20.2	mg/L	0.050	0.0076	1	03/05/21 10:52	03/09/21 13:39	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	43.5	mg/L	5.0	5.0	1		03/16/21 00:38		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/16/21 00:38		
Alkalinity, Total as CaCO ₃	43.5	mg/L	5.0	5.0	1		03/16/21 00:38		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-17 **Lab ID: 92524836017** Collected: 03/03/21 16:55 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.23	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.0	mg/L	0.20	0.056	1	03/05/21 10:52	03/09/21 13:44	7440-09-7	
Sodium	17.5	mg/L	1.0	0.26	1	03/05/21 10:52	03/09/21 13:44	7440-23-5	
Magnesium	48.4	mg/L	0.050	0.0076	1	03/05/21 10:52	03/09/21 13:44	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/16/21 00:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/16/21 00:46		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/16/21 00:46		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-21 **Lab ID: 92524836018** Collected: 03/03/21 12:56 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.63	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.8	mg/L	0.20	0.056	1	03/05/21 10:52	03/09/21 13:49	7440-09-7	
Sodium	23.6	mg/L	1.0	0.26	1	03/05/21 10:52	03/09/21 13:49	7440-23-5	
Magnesium	16.3	mg/L	0.050	0.0076	1	03/05/21 10:52	03/09/21 13:49	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	29.0	mg/L	5.0	5.0	1		03/16/21 00:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/16/21 00:52		
Alkalinity, Total as CaCO3	29.0	mg/L	5.0	5.0	1		03/16/21 00:52		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-22 **Lab ID: 92524836019** Collected: 03/03/21 14:26 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.71	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.7	mg/L	0.20	0.056	1	03/05/21 12:04	03/10/21 02:58	7440-09-7	
Sodium	28.4	mg/L	1.0	0.26	1	03/05/21 12:04	03/10/21 02:58	7440-23-5	
Magnesium	22.1	mg/L	0.050	0.0076	1	03/05/21 12:04	03/10/21 02:58	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	24.2	mg/L	5.0	5.0	1		03/16/21 00:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/16/21 00:59		
Alkalinity, Total as CaCO3	24.2	mg/L	5.0	5.0	1		03/16/21 00:59		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-23 **Lab ID: 92524836020** Collected: 03/03/21 16:22 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.85	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	11.0	mg/L	0.20	0.056	1	03/05/21 12:04	03/10/21 03:18	7440-09-7	
Sodium	22.1	mg/L	1.0	0.26	1	03/05/21 12:04	03/10/21 03:18	7440-23-5	
Magnesium	16.8	mg/L	0.050	0.0076	1	03/05/21 12:04	03/10/21 03:18	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	67.7	mg/L	5.0	5.0	1		03/16/21 01:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/16/21 01:07		
Alkalinity, Total as CaCO3	67.7	mg/L	5.0	5.0	1		03/16/21 01:07		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-42 **Lab ID: 92524836021** Collected: 03/03/21 14:09 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.30	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.3	mg/L	0.20	0.056	1	03/05/21 12:04	03/10/21 03:23	7440-09-7	
Sodium	59.0	mg/L	1.0	0.26	1	03/05/21 12:04	03/10/21 03:23	7440-23-5	
Magnesium	31.6	mg/L	0.050	0.0076	1	03/05/21 12:04	03/10/21 03:23	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	9.4	mg/L	5.0	5.0	1		03/16/21 01:28		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/16/21 01:28		
Alkalinity, Total as CaCO ₃	9.4	mg/L	5.0	5.0	1		03/16/21 01:28		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-47 **Lab ID: 92524836022** Collected: 03/03/21 11:45 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	3.98	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.7	mg/L	0.20	0.056	1	03/05/21 12:04	03/10/21 03:28	7440-09-7	
Sodium	8.1	mg/L	1.0	0.26	1	03/05/21 12:04	03/10/21 03:28	7440-23-5	
Magnesium	7.7	mg/L	0.050	0.0076	1	03/05/21 12:04	03/10/21 03:28	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/16/21 01:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/16/21 01:35		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/16/21 01:35		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-48 **Lab ID: 92524836023** Collected: 03/03/21 10:07 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	4.14	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	14.7	mg/L	0.20	0.056	1	03/05/21 12:04	03/10/21 03:33	7440-09-7	
Sodium	21.8	mg/L	1.0	0.26	1	03/05/21 12:04	03/10/21 03:33	7440-23-5	
Magnesium	15.9	mg/L	0.050	0.0076	1	03/05/21 12:04	03/10/21 03:33	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/16/21 22:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/16/21 22:14		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/16/21 22:14		

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ANALYTICAL RESULTS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Sample: DGWC-10 **Lab ID: 92524836024** Collected: 03/04/21 13:20 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.27	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	7.0	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 17:59	7440-09-7	
Sodium	10.9	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 17:59	7440-23-5	
Magnesium	7.3	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 05:11	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	9.0	mg/L	5.0	5.0	1		03/17/21 21:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 21:25		
Alkalinity, Total as CaCO3	9.0	mg/L	5.0	5.0	1		03/17/21 21:25		

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QUALITY CONTROL DATA

Project: DGWC WELLS IONS

Pace Project No.: 92531212

QC Batch: 603832

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524836001

METHOD BLANK: 3180960

Matrix: Water

Associated Lab Samples: 92524836001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	ND	0.050	0.0076	03/03/21 17:08	
Potassium	mg/L	ND	0.20	0.056	03/03/21 17:08	
Sodium	mg/L	ND	1.0	0.26	03/03/21 17:08	

LABORATORY CONTROL SAMPLE: 3180961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	105	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180962 3180963

Parameter	Units	92524853001		3180962		3180963		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							MS % Rec	MSD % Rec
Magnesium	mg/L	3.5	3.5	1	1	4.7	4.8	112	125	75-125	3	20	
Potassium	mg/L	4.0	4.0	1	1	5.1	5.2	110	123	75-125	3	20	
Sodium	mg/L	7.5	7.5	1	1	8.8	9.0	137	150	75-125	2	20	M1

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

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QUALITY CONTROL DATA

Project: DGWC WELLS IONS

Pace Project No.: 92531212

QC Batch:	604550	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524836002, 92524836003, 92524836004, 92524836005, 92524836006, 92524836007, 92524836008

METHOD BLANK: 3184771 Matrix: Water
 Associated Lab Samples: 92524836002, 92524836003, 92524836004, 92524836005, 92524836006, 92524836007, 92524836008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	ND	0.050	0.0076	03/09/21 23:35	
Potassium	mg/L	0.081J	0.20	0.056	03/09/21 23:35	
Sodium	mg/L	ND	1.0	0.26	03/09/21 23:35	

LABORATORY CONTROL SAMPLE: 3184772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Sodium	mg/L	1	1.2	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184773 3184774

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524831002 Result	Spike Conc.	Spike Conc.	Conc.								
Magnesium	mg/L	9.5	1	1	10.3	10.4	81	96	75-125	1	20		
Potassium	mg/L	6.1	1	1	7.0	7.1	93	104	75-125	2	20		
Sodium	mg/L	10.5	1	1	11.2	11.4	68	89	75-125	2	20	M1	

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QUALITY CONTROL DATA

Project: DGWC WELLS IONS

Pace Project No.: 92531212

QC Batch:	604554	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92524836009, 92524836010, 92524836011, 92524836012, 92524836013, 92524836014, 92524836016, 92524836017, 92524836018		

METHOD BLANK:	3184787	Matrix:	Water
Associated Lab Samples:	92524836009, 92524836010, 92524836011, 92524836012, 92524836013, 92524836014, 92524836016, 92524836017, 92524836018		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	ND	0.050	0.0076	03/09/21 12:31	
Potassium	mg/L	ND	0.20	0.056	03/09/21 12:31	
Sodium	mg/L	ND	1.0	0.26	03/09/21 12:31	

LABORATORY CONTROL SAMPLE: 3184788						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184789												3184790	
Parameter	Units	92524831009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Magnesium	mg/L	15.4	1	1	16.1	15.9	63	47	75-125	1	20	M1	
Potassium	mg/L	4.5	1	1	5.5	5.5	98	98	75-125	0	20		
Sodium	mg/L	22.2	1	1	23.1	23.1	84	91	75-125	0	20		

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QUALITY CONTROL DATA

Project: DGWC WELLS IONS

Pace Project No.: 92531212

QC Batch: 604561 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524836019, 92524836020, 92524836021, 92524836022, 92524836023

METHOD BLANK: 3184821 Matrix: Water
 Associated Lab Samples: 92524836019, 92524836020, 92524836021, 92524836022, 92524836023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	ND	0.050	0.0076	03/10/21 02:39	
Potassium	mg/L	ND	0.20	0.056	03/10/21 02:39	
Sodium	mg/L	ND	1.0	0.26	03/10/21 02:39	

LABORATORY CONTROL SAMPLE: 3184822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184823 3184824

Parameter	Units	92524831019		3184823		3184824		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Magnesium	mg/L	22.1	1	1	23.2	23.3	108	116	75-125	0	20
Potassium	mg/L	6.7	1	1	7.8	7.9	110	119	75-125	1	20
Sodium	mg/L	28.4	1	1	29.4	29.6	93	116	75-125	1	20

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QUALITY CONTROL DATA

Project: DGWC WELLS IONS

Pace Project No.: 92531212

QC Batch: 607149	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524836024

METHOD BLANK: 3198600 Matrix: Water

Associated Lab Samples: 92524836024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	ND	0.050	0.0076	03/19/21 05:01	
Potassium	mg/L	ND	0.20	0.056	03/19/21 05:01	
Sodium	mg/L	ND	1.0	0.26	03/19/21 05:01	

LABORATORY CONTROL SAMPLE: 3198601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198602 3198603

Parameter	Units	92524831024		3198602		3198603		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Magnesium	mg/L	7.3	7.3	1	1	8.2	8.2	93	94	75-125	0	20
Potassium	mg/L	7.7	7.7	1	1	8.8	8.7	107	103	75-125	0	20
Sodium	mg/L	11.6	11.6	1	1	12.6	12.6	95	98	75-125	0	20

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QUALITY CONTROL DATA

Project: DGWC WELLS IONS
 Pace Project No.: 92531212

QC Batch: 606220 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92524836001

METHOD BLANK: 3193657 Matrix: Water
 Associated Lab Samples: 92524836001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/12/21 12:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/12/21 12:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/12/21 12:40	

LABORATORY CONTROL SAMPLE: 3193658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193659 3193660

Parameter	Units	92526098001		3193660		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	496	50	506	510	20	28	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193661 3193662

Parameter	Units	92526099006		3193662		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	25.2	25.5	50	51	80-120	1	25	M1

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QUALITY CONTROL DATA

Project: DGWC WELLS IONS

Pace Project No.: 92531212

QC Batch:	606222	Analysis Method:	SM 2320B-2011
QC Batch Method:	SM 2320B-2011	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92524836002, 92524836003, 92524836004, 92524836005, 92524836006, 92524836007, 92524836008, 92524836009, 92524836010, 92524836011, 92524836012, 92524836013, 92524836014		

METHOD BLANK:	3193668	Matrix:	Water
Associated Lab Samples:	92524836002, 92524836003, 92524836004, 92524836005, 92524836006, 92524836007, 92524836008, 92524836009, 92524836010, 92524836011, 92524836012, 92524836013, 92524836014		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/12/21 16:41	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/12/21 16:41	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/12/21 16:41	

LABORATORY CONTROL SAMPLE:	3193669					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.5	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3193670			3193671								
Parameter	Units	92526099008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	ND	ND	0	0	80-120		25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3194100			3194101								
Parameter	Units	92526099009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	51.4	51.6	103	103	80-120	0	25	

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QUALITY CONTROL DATA

Project: DGWC WELLS IONS

Pace Project No.: 92531212

QC Batch: 606598 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92524836016, 92524836017, 92524836018, 92524836019, 92524836020, 92524836021, 92524836022

METHOD BLANK: 3195960 Matrix: Water
 Associated Lab Samples: 92524836016, 92524836017, 92524836018, 92524836019, 92524836020, 92524836021, 92524836022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/15/21 21:17	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/15/21 21:17	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/15/21 21:17	

LABORATORY CONTROL SAMPLE: 3195961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195962 3195963

Parameter	Units	92526805001 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	41.4	50	50	91.7	92.8	101	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195964 3195965

Parameter	Units	92526826001 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	195	50	50	249	246	109	102	80-120	1	25	

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QUALITY CONTROL DATA

Project: DGWC WELLS IONS
 Pace Project No.: 92531212

QC Batch: 606874 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92524836023

METHOD BLANK: 3197235 Matrix: Water
 Associated Lab Samples: 92524836023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/16/21 19:52	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/16/21 19:52	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/16/21 19:52	

LABORATORY CONTROL SAMPLE: 3197236

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3197237 3197238

Parameter	Units	92527199002		3197237		3197238		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec	MSD % Rec
Alkalinity, Total as CaCO3	mg/L	110	50	157	50	160	94	100	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3197239 3197240

Parameter	Units	92527211001		3197239		3197240		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Alkalinity, Total as CaCO3	mg/L	28.5	50	78.5	50	79.4	100	102	80-120	1	25	

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QUALITY CONTROL DATA

Project: DGWC WELLS IONS
 Pace Project No.: 92531212

QC Batch: 607154 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92524836024

METHOD BLANK: 3198620 Matrix: Water
 Associated Lab Samples: 92524836024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/17/21 17:52	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/17/21 17:52	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/17/21 17:52	

LABORATORY CONTROL SAMPLE: 3198621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.0	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198624 3198625

Parameter	Units	92525669006		3198625		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	57.3	50	50	110	109	106	104	80-120	1	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200194 3200195

Parameter	Units	92525383011		3200195		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	28.9	50	50	80.0	81.0	102	104	80-120	1	25

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QUALIFIERS

Project: DGWC WELLS IONS

Pace Project No.: 92531212

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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: DGWC WELLS IONS
 Pace Project No.: 92531212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524836001	DGWC-4				
92524836002	DGWC-2				
92524836003	DGWC-5				
92524836004	DGWC-8				
92524836005	DGWC-9				
92524836006	DGWC-11				
92524836007	DGWC-13				
92524836008	DGWC-14				
92524836009	DGWC-15				
92524836010	DGWC-19				
92524836011	DGWC-20				
92524836016	DGWC-12				
92524836017	DGWC-17				
92524836018	DGWC-21				
92524836019	DGWC-22				
92524836020	DGWC-23				
92524836021	DGWC-42				
92524836022	DGWC-47				
92524836023	DGWC-48				
92524836024	DGWC-10				
92524836001	DGWC-4	EPA 3010A	603832	EPA 6010D	603942
92524836002	DGWC-2	EPA 3010A	604550	EPA 6010D	604640
92524836003	DGWC-5	EPA 3010A	604550	EPA 6010D	604640
92524836004	DGWC-8	EPA 3010A	604550	EPA 6010D	604640
92524836005	DGWC-9	EPA 3010A	604550	EPA 6010D	604640
92524836006	DGWC-11	EPA 3010A	604550	EPA 6010D	604640
92524836007	DGWC-13	EPA 3010A	604550	EPA 6010D	604640
92524836008	DGWC-14	EPA 3010A	604550	EPA 6010D	604640
92524836009	DGWC-15	EPA 3010A	604554	EPA 6010D	604641
92524836010	DGWC-19	EPA 3010A	604554	EPA 6010D	604641
92524836011	DGWC-20	EPA 3010A	604554	EPA 6010D	604641
92524836012	DUP-1	EPA 3010A	604554	EPA 6010D	604641
92524836013	FB-1	EPA 3010A	604554	EPA 6010D	604641
92524836014	EB-1	EPA 3010A	604554	EPA 6010D	604641
92524836016	DGWC-12	EPA 3010A	604554	EPA 6010D	604641
92524836017	DGWC-17	EPA 3010A	604554	EPA 6010D	604641
92524836018	DGWC-21	EPA 3010A	604554	EPA 6010D	604641
92524836019	DGWC-22	EPA 3010A	604561	EPA 6010D	604650
92524836020	DGWC-23	EPA 3010A	604561	EPA 6010D	604650
92524836021	DGWC-42	EPA 3010A	604561	EPA 6010D	604650
92524836022	DGWC-47	EPA 3010A	604561	EPA 6010D	604650
92524836023	DGWC-48	EPA 3010A	604561	EPA 6010D	604650
92524836024	DGWC-10	EPA 3010A	607149	EPA 6010D	607253
92524836001	DGWC-4	SM 2320B-2011	606220		
92524836002	DGWC-2	SM 2320B-2011	606222		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DGWC WELLS IONS

Pace Project No.: 92531212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524836003	DGWC-5	SM 2320B-2011	606222		
92524836004	DGWC-8	SM 2320B-2011	606222		
92524836005	DGWC-9	SM 2320B-2011	606222		
92524836006	DGWC-11	SM 2320B-2011	606222		
92524836007	DGWC-13	SM 2320B-2011	606222		
92524836008	DGWC-14	SM 2320B-2011	606222		
92524836009	DGWC-15	SM 2320B-2011	606222		
92524836010	DGWC-19	SM 2320B-2011	606222		
92524836011	DGWC-20	SM 2320B-2011	606222		
92524836012	DUP-1	SM 2320B-2011	606222		
92524836013	FB-1	SM 2320B-2011	606222		
92524836014	EB-1	SM 2320B-2011	606222		
92524836016	DGWC-12	SM 2320B-2011	606598		
92524836017	DGWC-17	SM 2320B-2011	606598		
92524836018	DGWC-21	SM 2320B-2011	606598		
92524836019	DGWC-22	SM 2320B-2011	606598		
92524836020	DGWC-23	SM 2320B-2011	606598		
92524836021	DGWC-42	SM 2320B-2011	606598		
92524836022	DGWC-47	SM 2320B-2011	606598		
92524836023	DGWC-48	SM 2320B-2011	606874		
92524836024	DGWC-10	SM 2320B-2011	607154		

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

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Project #:

WO#: 92524836



Date/Initials Person Examining Contents: BC 3/2/21

Courier: Commercial Fed Ex UPS USPS Client Pace Other _____

Custody Seal Present? Yes No Seal Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 233 Type of Ice: Dry Blue None

Yes No N/A

Cooler Temp: 1.1 Correction Factor Add/Subtract (°C) 30.4

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 1.5

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

USDA Regulated Soil (N/A, water sample)

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

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pure 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>W T</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 Seal 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: _____

Signature

CHAIN-OF-CUSTODY / Analytical Request Document
 The Date of Creation is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page 1 of 1

Requester Name: <u>John Doe</u>	Requester Title: <u>Analyst</u>	Requester Agency: <u>Police Dept</u>	Requester Address: <u>123 Main St</u>	Requester City: <u>Anytown</u>	Requester State: <u>CA</u>	Requester Zip: <u>90210</u>	Requester Phone: <u>555-1234</u>	Requester Email: <u>john.doe@pd.com</u>
Requester Date: <u>01/15/2021</u>	Requester Time: <u>10:00 AM</u>	Requester Location: <u>123 Main St</u>	Requester Contact: <u>John Doe</u>	Requester Status: <u>Open</u>	Requester Priority: <u>High</u>	Requester Category: <u>General</u>	Requester Sub-category: <u>Analysis</u>	Requester Comments: <u>See attached</u>

Item #	Description	Quantity	Unit	Material	Date	Time	Location	Status	Priority	Category	Sub-category	Comments	Analysis Test	
													Pass/Fail	Notes
1	Control #	10	mg	Control #	01/15/2021	10:00 AM	123 Main St	Open	High	General	Analysis	See attached	Pass	
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

Requester Signature: _____

Date: _____



May 13, 2021

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

RE: Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92524830

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 12, 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,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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

Pace Project No.: 92524830

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT
Pace Project No.: 92524830

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524830001	DGWA-70A	Water	03/01/21 13:22	03/02/21 08:45
92524830002	DGWA-71	Water	03/01/21 15:18	03/02/21 08:45
92524830003	DGWA-53	Water	03/12/21 12:28	03/12/21 17:23

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524830001	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	JLH	3
92524830002	DGWA-71	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524830003	DGWA-53	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	JLH	3

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

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

Sample: DGWA-70A **Lab ID: 92524830001** Collected: 03/01/21 13:22 Received: 03/02/21 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	CUSTOMER				1		03/22/21 11:53		
pH	5.43	Std. Units			1		03/22/21 11:53		

6010D ATL ICP

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

Calcium	4.1	mg/L	1.0	0.070	1	03/03/21 10:17	03/03/21 17:30	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	0.00028	1	03/03/21 10:24	03/03/21 17:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/03/21 10:24	03/03/21 17:00	7440-38-2	
Barium	0.042	mg/L	0.0050	0.00071	1	03/03/21 10:24	03/03/21 17:00	7440-39-3	
Beryllium	0.00012J	mg/L	0.00050	0.000046	1	03/03/21 10:24	03/03/21 17:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/03/21 10:24	03/03/21 17:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/03/21 10:24	03/03/21 17:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/03/21 10:24	03/03/21 17:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/03/21 10:24	03/03/21 17:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/03/21 10:24	03/03/21 17:00	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/03/21 10:24	03/03/21 17:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/03/21 10:24	03/03/21 17:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/03/21 10:24	03/04/21 13:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/03/21 10:24	03/03/21 17:00	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	03/04/21 14:15	03/05/21 10:48	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	25.0	mg/L	10.0	10.0	1		03/02/21 15:43		
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300.0 IC Anions 28 Days

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

Chloride	1.9	mg/L	1.0	0.60	1		03/06/21 14:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 14:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/06/21 14:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

Sample: DGWA-71 **Lab ID: 92524830002** Collected: 03/01/21 15:18 Received: 03/02/21 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:53		
pH	5.80	Std. Units			1		03/22/21 11:53		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.9	mg/L	1.0	0.070	1	03/03/21 10:17	03/03/21 17:34	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0019J	mg/L	0.0030	0.00028	1	03/03/21 10:24	03/03/21 17:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/03/21 10:24	03/03/21 17:23	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	03/03/21 10:24	03/03/21 17:23	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000046	1	03/03/21 10:24	03/03/21 17:23	7440-41-7	
Boron	0.0054J	mg/L	0.040	0.0052	1	03/03/21 10:24	03/03/21 17:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/03/21 10:24	03/03/21 17:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/03/21 10:24	03/03/21 17:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/03/21 10:24	03/03/21 17:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/03/21 10:24	03/03/21 17:23	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00081	1	03/03/21 10:24	03/03/21 17:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/03/21 10:24	03/03/21 17:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/03/21 10:24	03/04/21 13:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/03/21 10:24	03/03/21 17:23	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.000090J	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	62.0	mg/L	10.0	10.0	1		03/02/21 15:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.9	mg/L	1.0	0.60	1		03/06/21 15:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 15:04	16984-48-8	
Sulfate	5.2	mg/L	1.0	0.50	1		03/06/21 15:04	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT
 Pace Project No.: 92524830

Sample: DGWA-53		Lab ID: 92524830003		Collected: 03/12/21 12:28		Received: 03/12/21 17:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:53		
pH	6.38	Std. Units			1		03/22/21 11:53		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	18.4	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 02:21	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/18/21 12:57	03/18/21 21:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/18/21 12:57	03/18/21 21:05	7440-38-2	
Barium	0.076	mg/L	0.0050	0.00071	1	03/18/21 12:57	03/18/21 21:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/18/21 12:57	03/18/21 21:05	7440-41-7	
Boron	0.064	mg/L	0.040	0.0052	1	03/18/21 12:57	03/18/21 21:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/18/21 12:57	03/18/21 21:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/18/21 12:57	03/18/21 21:05	7440-47-3	
Cobalt	0.0078	mg/L	0.0050	0.00038	1	03/18/21 12:57	03/18/21 21:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/18/21 12:57	03/18/21 21:05	7439-92-1	
Lithium	0.0083J	mg/L	0.030	0.00081	1	03/18/21 12:57	03/18/21 21:05	7439-93-2	
Molybdenum	0.018	mg/L	0.010	0.00069	1	03/18/21 12:57	03/18/21 21:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/18/21 12:57	03/18/21 21:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/18/21 12:57	03/18/21 21:05	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/25/21 08:05	03/25/21 13:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	124	mg/L	10.0	10.0	1		03/17/21 17:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.0	mg/L	1.0	0.60	1		03/20/21 05:13	16887-00-6	
Fluoride	0.076J	mg/L	0.10	0.050	1		03/20/21 05:13	16984-48-8	
Sulfate	8.8	mg/L	1.0	0.50	1		03/20/21 05:13	14808-79-8	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

QC Batch: 603832

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524830001, 92524830002

METHOD BLANK: 3180960

Matrix: Water

Associated Lab Samples: 92524830001, 92524830002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/03/21 17:08	

LABORATORY CONTROL SAMPLE: 3180961

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: 3180962 3180963

Parameter	Units	3180962		3180963		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	23.3	1	1	25.2	25.9	190	266	75-125	3	20 M1

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

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
 Pace Project No.: 92524830

QC Batch: 607584 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524830003

METHOD BLANK: 3200680 Matrix: Water
 Associated Lab Samples: 92524830003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/20/21 00:30	

LABORATORY CONTROL SAMPLE: 3200681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200682 3200683

Parameter	Units	3200682		3200683		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	35.7	1	39.0	38.7	328	296	75-125	1	20	M1

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

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

QC Batch: 603841

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524830001, 92524830002

METHOD BLANK: 3181014

Matrix: Water

Associated Lab Samples: 92524830001, 92524830002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/03/21 16:48	
Arsenic	mg/L	ND	0.0050	0.00078	03/03/21 16:48	
Barium	mg/L	ND	0.0050	0.00071	03/03/21 16:48	
Beryllium	mg/L	ND	0.00050	0.000046	03/03/21 16:48	
Boron	mg/L	ND	0.040	0.0052	03/03/21 16:48	
Cadmium	mg/L	ND	0.00050	0.00012	03/03/21 16:48	
Chromium	mg/L	ND	0.0050	0.00055	03/03/21 16:48	
Cobalt	mg/L	ND	0.0050	0.00038	03/03/21 16:48	
Lead	mg/L	ND	0.0010	0.000036	03/03/21 16:48	
Lithium	mg/L	ND	0.030	0.00081	03/03/21 16:48	
Molybdenum	mg/L	ND	0.010	0.00069	03/03/21 16:48	
Selenium	mg/L	ND	0.0050	0.0016	03/04/21 13:23	
Thallium	mg/L	ND	0.0010	0.00014	03/03/21 16:48	

LABORATORY CONTROL SAMPLE: 3181015

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	0.095	95	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3181016 3181017

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524830001	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.1	0.10	106	105	75-125	1	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.: 92524830

Parameter	Units	3181016		3181017		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524830001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	0.042	0.1	0.1	0.15	0.14	104	100	75-125	3	20		
Beryllium	mg/L	0.00012J	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Boron	mg/L	ND	1	1	0.96	0.96	96	96	75-125	0	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	99	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.099	0.098	99	97	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.091	98	91	75-125	7	20		
Thallium	mg/L	ND	0.1	0.1	0.093	0.090	93	90	75-125	3	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

QC Batch: 607620

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524830003

METHOD BLANK: 3200852

Matrix: Water

Associated Lab Samples: 92524830003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/18/21 19:10	
Arsenic	mg/L	ND	0.0050	0.00078	03/18/21 19:10	
Barium	mg/L	ND	0.0050	0.00071	03/18/21 19:10	
Beryllium	mg/L	ND	0.00050	0.000046	03/18/21 19:10	
Boron	mg/L	ND	0.040	0.0052	03/18/21 19:10	
Cadmium	mg/L	ND	0.00050	0.00012	03/18/21 19:10	
Chromium	mg/L	ND	0.0050	0.00055	03/18/21 19:10	
Cobalt	mg/L	ND	0.0050	0.00038	03/18/21 19:10	
Lead	mg/L	ND	0.0010	0.000036	03/18/21 19:10	
Lithium	mg/L	ND	0.030	0.00081	03/18/21 19:10	
Molybdenum	mg/L	ND	0.010	0.00069	03/18/21 19:10	
Selenium	mg/L	ND	0.0050	0.0016	03/18/21 19:10	
Thallium	mg/L	ND	0.0010	0.00014	03/18/21 19:10	

LABORATORY CONTROL SAMPLE: 3200853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.97	97	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	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	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	0.093	93	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200854 3200855

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524632021	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	0.11	109	112	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.1	0.10	0.10	100	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

Parameter	Units	3200854		3200855		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524632021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.028	0.1	0.1	0.13	0.13	100	101	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	5	20		
Boron	mg/L	0.0098J	1	1	1.0	1.1	99	104	75-125	5	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	3	20		
Chromium	mg/L	0.00090J	0.1	0.1	0.10	0.11	103	107	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	102	107	75-125	5	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.098	0.10	98	102	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	ND	0.1	0.1	0.097	0.098	97	98	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
 Pace Project No.: 92524830

QC Batch: 604308 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524830001, 92524830002

METHOD BLANK: 3183676 Matrix: Water
 Associated Lab Samples: 92524830001, 92524830002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/05/21 10:07	

LABORATORY CONTROL SAMPLE: 3183677

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: 3183678 3183679

Parameter	Units	92524632013		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	102	102	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

QC Batch: 609136

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524830003

METHOD BLANK: 3208288

Matrix: Water

Associated Lab Samples: 92524830003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/25/21 13:28	

LABORATORY CONTROL SAMPLE: 3208289

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3208290 3208291

Parameter	Units	3208290		3208291		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92528826006 ND	0.0025	0.0025	0.0026	0.0023	102	92	75-125	10	20

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT
 Pace Project No.: 92524830

QC Batch: 603554 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: 92524830001, 92524830002

METHOD BLANK: 3179650 Matrix: Water
 Associated Lab Samples: 92524830001, 92524830002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/02/21 15:40	

LABORATORY CONTROL SAMPLE: 3179651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	393	98	90-111	

SAMPLE DUPLICATE: 3179652

Parameter	Units	92524632011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	194	196	1	10	

SAMPLE DUPLICATE: 3179653

Parameter	Units	92524632016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	128	129	1	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

QC Batch: 607316	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: 92524830003

METHOD BLANK: 3199480 Matrix: Water

Associated Lab Samples: 92524830003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/17/21 17:40	

LABORATORY CONTROL SAMPLE: 3199481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3199482

Parameter	Units	92527256010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	279	278	0	10	

SAMPLE DUPLICATE: 3199483

Parameter	Units	92526996006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	255	258	1	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

QC Batch: 604543 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: 92524830001, 92524830002

METHOD BLANK: 3184704 Matrix: Water

Associated Lab Samples: 92524830001, 92524830002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/06/21 12:54	
Fluoride	mg/L	ND	0.10	0.050	03/06/21 12:54	
Sulfate	mg/L	ND	1.0	0.50	03/06/21 12:54	

LABORATORY CONTROL SAMPLE: 3184705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184706 3184707

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92523440025	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	2.6	50	50	50.5	51.7	96	98	90-110	2	10		
Fluoride	mg/L	0.13	2.5	2.5	2.6	2.7	100	102	90-110	2	10		
Sulfate	mg/L	ND	50	50	48.5	49.7	96	99	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184708 3184709

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524853002	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	8.3	50	50	57.2	57.0	98	97	90-110	0	10		
Fluoride	mg/L	0.26	2.5	2.5	2.8	2.8	101	101	90-110	0	10		
Sulfate	mg/L	42.4	50	50	91.1	90.9	97	97	90-110	0	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

QC Batch: 607751	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: 92524830003

METHOD BLANK: 3201757 Matrix: Water

Associated Lab Samples: 92524830003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/19/21 17:15	
Fluoride	mg/L	ND	0.10	0.050	03/19/21 17:15	
Sulfate	mg/L	ND	1.0	0.50	03/19/21 17:15	

LABORATORY CONTROL SAMPLE: 3201758

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	2.3	91	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3201759 3201760

Parameter	Units	92528475003		3201759		3201760		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							MS % Rec	MSD % Rec
Chloride	mg/L	2510	2510	50	50	2520	2520	27	27	90-110	0	10	M6
Fluoride	mg/L	4.6	4.6	2.5	2.5	12.1	11.9	302	294	90-110	2	10	M6
Sulfate	mg/L	1530	1530	50	50	1510	1480	-49	-112	90-110	2	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3201761 3201762

Parameter	Units	92527256007		3201761		3201762		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							MS % Rec	MSD % Rec
Chloride	mg/L	5.9	5.9	50	50	58.9	57.5	106	103	90-110	2	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.3	2.3	91	90	90-110	1	10	
Sulfate	mg/L	50.4	50.4	50	50	102	101	103	101	90-110	1	10	

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QUALIFIERS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92524830

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT
 Pace Project No.: 92524830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524830001	DGWA-70A				
92524830002	DGWA-71				
92524830003	DGWA-53				
92524830001	DGWA-70A	EPA 3010A	603832	EPA 6010D	603942
92524830002	DGWA-71	EPA 3010A	603832	EPA 6010D	603942
92524830003	DGWA-53	EPA 3010A	607584	EPA 6010D	607676
92524830001	DGWA-70A	EPA 3005A	603841	EPA 6020B	603947
92524830002	DGWA-71	EPA 3005A	603841	EPA 6020B	603947
92524830003	DGWA-53	EPA 3005A	607620	EPA 6020B	607757
92524830001	DGWA-70A	EPA 7470A	604308	EPA 7470A	604504
92524830002	DGWA-71	EPA 7470A	604308	EPA 7470A	604504
92524830003	DGWA-53	EPA 7470A	609136	EPA 7470A	609168
92524830001	DGWA-70A	SM 2540C-2011	603554		
92524830002	DGWA-71	SM 2540C-2011	603554		
92524830003	DGWA-53	SM 2540C-2011	607316		
92524830001	DGWA-70A	EPA 300.0 Rev 2.1 1993	604543		
92524830002	DGWA-71	EPA 300.0 Rev 2.1 1993	604543		
92524830003	DGWA-53	EPA 300.0 Rev 2.1 1993	607751		

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Laboratory Processing Summary:

Ashville Charlotte Greensboro High Point Raleigh Winston-Salem Yadon Zebulon

Client Name:

Project #:

WON: 92524830

Country: Command

Method: EPA Other



Carryover Problem? Yes No

Sample ID: 92524830

Filling Material: Plastic Glass Paper Other

Biological Process? Yes No

Transmission: Direct Indirect

Cooler Temp: 1.1
Correction Factor: 1.5

For 2 this will be above freezing (50°F)
 Cooling below of temp means samples are no longer process-able

USDA Registered Soil? Yes No
Did you follow the following steps with the correct order (a, b, or c) (check only)?
 No Yes

Did you use original buying source packaging including labels? Yes No

Checklist Item	Yes	No	NA	Notes
Checklist Item 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Checklist Item 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Checklist Item 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Checklist Item 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Checklist Item 5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Checklist Item 6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Checklist Item 7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Checklist Item 8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Checklist Item 9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Checklist Item 10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Checklist Item 11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Additional Comments: Yes No

Signature of Analyst: _____ Date: _____

Signature of Supervisor: _____ Date: _____

Project Manager: _____ Date: _____

Project Manager: _____ Date: _____

Project Manager: _____ Date: _____

2

CHINA RAILWAY GROUP ANALYTICAL REPORT DOCUMENT
FOR CHINA RAILWAY GROUP ANALYTICAL REPORT DOCUMENT

Section 1: Project Information
Section 2: Analytical Report
Section 3: Summary

Project Name	China Railway Group Analytical Report	Project Number	CR-2023-001
Client Name	China Railway Group	Report Date	2023-10-27
Report Title	China Railway Group Analytical Report	Report Version	1.0
Author	China Railway Group	Reviewer	China Railway Group

Item No.	Item Name	Item Description	Item Status		Item Location		Item Date		Item Time	
			Start	End	Start	End	Start	End	Start	End
1	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
2	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
3	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
4	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
5	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
6	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
7	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
8	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
9	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
10	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
11	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
12	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
13	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
14	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
15	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
16	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
17	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
18	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
19	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00
20	China Railway Group	China Railway Group Analytical Report	2023-10-27	2023-10-27	10:00	12:00	10:00	12:00	10:00	12:00

China Railway Group Analytical Report
2023-10-27

Handwritten initials

CHAMBER OF JUSTICE J. Analytical Report of the Department
of Justice, Office of the Attorney General

Section 1: [Blank] Section 2: [Blank] Section 3: [Blank]

Administrative information fields including dates, times, and checkboxes.

Table with 4 columns: Case No., Date, Description, and Status. Includes a header for 'SARIN/UF ID'.

Main data table with multiple columns and rows, containing various alphanumeric entries.

Page 1 of 1



May 13, 2021

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

RE: Project: MCDONOUGH UPGRADIENT RADS
Pace Project No.: 92524823

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 12, 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,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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.: 92524823

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 UPGRADIENT RADS

Pace Project No.: 92524823

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524823001	DGWA-70A	Water	03/01/21 13:22	03/02/21 08:45
92524823002	DGWA-71	Water	03/01/21 15:18	03/02/21 08:45
92524823003	DGWA-53	Water	03/12/21 12:28	03/12/21 17:23

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92524823

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92524823001	DGWA-70A	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92524823002	DGWA-71	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92524823003	DGWA-53	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92524823

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWA-70A Lab ID: 92524823001 Collected: 03/01/21 13:22 Received: 03/02/21 08:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.121 ± 0.162 (0.350) C:83% T:NA	pCi/L	03/15/21 09:10	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.431 ± 0.387 (0.786) C:74% T:90%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.552 ± 0.549 (1.14)	pCi/L	04/03/21 09:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92524823

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWA-71 Lab ID: 92524823002 Collected: 03/01/21 15:18 Received: 03/02/21 08:45 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0137 ± 0.136 (0.347) C:81% T:NA	pCi/L	03/15/21 09:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.375 ± 0.408 (0.850) C:74% T:82%	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.389 ± 0.544 (1.20)	pCi/L	04/03/21 09:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92524823

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DGWA-53 Lab ID: 92524823003 Collected: 03/12/21 12:28 Received: 03/12/21 17:23 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.844 ± 0.326 (0.440) C:80% T:NA	pCi/L	03/29/21 07:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.786 ± 0.571 (1.13) C:71% T:68%	pCi/L	04/07/21 12:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.63 ± 0.897 (1.57)	pCi/L	04/08/21 10:32	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92524823

QC Batch: 440194

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92524823003

METHOD BLANK: 2125114

Matrix: Water

Associated Lab Samples: 92524823003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.922 ± 0.466 (0.823) C:75% T:77%	pCi/L	04/07/21 12:38	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92524823

QC Batch: 437599

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92524823001, 92524823002

METHOD BLANK: 2112389

Matrix: Water

Associated Lab Samples: 92524823001, 92524823002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00470 ± 0.0712 (0.214) C:85% T:NA	pCi/L	03/15/21 09:18	

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 UPGRADIENT RADS

Pace Project No.: 92524823

QC Batch: 437641

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92524823001, 92524823002

METHOD BLANK: 2112538

Matrix: Water

Associated Lab Samples: 92524823001, 92524823002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.312 ± 0.330 (0.686) C:82% T:90%	pCi/L	03/15/21 16:07	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92524823

QC Batch: 439773

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92524823003

METHOD BLANK: 2123469

Matrix: Water

Associated Lab Samples: 92524823003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0133 ± 0.113 (0.309) C:70% T:NA	pCi/L	03/29/21 07:58	

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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QUALIFIERS

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92524823

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92524823

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524823001	DGWA-70A	EPA 9315	437599		
92524823002	DGWA-71	EPA 9315	437599		
92524823003	DGWA-53	EPA 9315	439773		
92524823001	DGWA-70A	EPA 9320	437641		
92524823002	DGWA-71	EPA 9320	437641		
92524823003	DGWA-53	EPA 9320	440194		
92524823001	DGWA-70A	Total Radium Calculation	441689		
92524823002	DGWA-71	Total Radium Calculation	441689		
92524823003	DGWA-53	Total Radium Calculation	442420		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt (SCUR)

Page 1 of 3

Document No.: F-CAR-CS-033-Rev.07

Issuing Authority: Face Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 92524823

Carrier: Commercial

Method: Fed Ex UPS USPS Client Face Other



92524823

Date/Initials Person Examining Contents: PT 3/2/21

Custody Seal Present? Yes No Seal Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 233 Type of Ice: Dry Blue None

Cooler Temp: 1.1 Correction Factor Add/Subtract (°C) 1.5

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

Cooler Temp Corrected (°C): 1.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, HI, 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?	Yes	No	N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Short Hold Time Analysis (x72 hr)?	<input checked="" type="checkbox"/>	<input 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.
Face 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 checked="" type="checkbox"/>	<input 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 SRP Review: _____ Date: _____

Review

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

Page 1 of 1

Section A Requester Information		Section B Requesting Agency Information		Section C Sample Information	
Requester Name	Requester Title	Agency Name	Agency Address	Sample ID	Sample Description
Requester Phone	Requester Email	Agency Phone	Agency City/State/Zip	Request Date	Requester Signature
Requester Fax	Requester Address	Agency Fax	Agency Contact Person	Requester Signature	Requester Title

Sample ID	Description of Sample	Date/Time Collected	Collector	Transportation		Storage		Analysis		Remarks
				Mode	Time	Temp	Humidity	Method	Result	
1
2
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DATE SPEC	...
...	...

Revised

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant facts must be certified accurately.

Page | 1 of 1

Section A Analytical Chain Information Agency: <u>San Diego County Sheriff's Department</u> Case No: <u>1901003</u> Date: <u>3/21/2019</u>		Section B Analytical Project Information Project No: <u>1901003</u> Date: <u>3/21/2019</u>		Section C Sample Information Sample No: <u>1901003</u> Date: <u>3/21/2019</u>	
Requested by: <u>[Signature]</u> Requested for: <u>[Signature]</u> Requested on: <u>3/21/2019</u>		Analytical Requester: <u>[Signature]</u> Analytical Requested on: <u>3/21/2019</u>		Date of Collection: <u>3/21/2019</u> Time of Collection: <u>10:00 AM</u>	
Location: <u>[Signature]</u> Date: <u>3/21/2019</u>		Date of Analysis: <u>3/21/2019</u> Time of Analysis: <u>10:00 AM</u>		Date of Report: <u>3/21/2019</u> Time of Report: <u>10:00 AM</u>	

ITEM #	DESCRIPTION	QTY	UNIT	TIME	DATE	TIME	ANALYSIS TEST				REMARKS
							GC	GC/MS	GC/MS/MS	GC/MS/MS/MS	
1	SAMPLE ID One Chamber per box 400g net weight in original baggage was found in vehicle	1	Box	10:00	3/21/2019	10:00	GC	GC/MS	GC/MS/MS	GC/MS/MS/MS	at 4:30
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

RECEIVED BY: [Signature]
 DATE: 3/21/2019
 TIME: 10:00 AM

Quality Control Sample Performance Assessment

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System	Station	Instrument	Method	Result
...
...
...

Sample	Station	Instrument	Method	Result
...
...
...

System	Station	Instrument	Method	Result
...
...
...

Sample	Station	Instrument	Method	Result
...
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Quality Control Sample Performance Assessment

Final Analysis Report
on Performance

Final Analysis Report on Performance

Sample Name	Sample No.	Sample Type	Sample Size	Sample Weight	Sample Volume	Sample Date	Sample Location	Sample Description	Sample Analysis
Sample 1	101	Sample 1	100g	100g	100ml	10/10/10	Sample 1	Sample 1	Sample 1
Sample 2	102	Sample 2	100g	100g	100ml	10/10/10	Sample 2	Sample 2	Sample 2
Sample 3	103	Sample 3	100g	100g	100ml	10/10/10	Sample 3	Sample 3	Sample 3
Sample 4	104	Sample 4	100g	100g	100ml	10/10/10	Sample 4	Sample 4	Sample 4
Sample 5	105	Sample 5	100g	100g	100ml	10/10/10	Sample 5	Sample 5	Sample 5
Sample 6	106	Sample 6	100g	100g	100ml	10/10/10	Sample 6	Sample 6	Sample 6
Sample 7	107	Sample 7	100g	100g	100ml	10/10/10	Sample 7	Sample 7	Sample 7
Sample 8	108	Sample 8	100g	100g	100ml	10/10/10	Sample 8	Sample 8	Sample 8
Sample 9	109	Sample 9	100g	100g	100ml	10/10/10	Sample 9	Sample 9	Sample 9
Sample 10	110	Sample 10	100g	100g	100ml	10/10/10	Sample 10	Sample 10	Sample 10
Sample 11	111	Sample 11	100g	100g	100ml	10/10/10	Sample 11	Sample 11	Sample 11
Sample 12	112	Sample 12	100g	100g	100ml	10/10/10	Sample 12	Sample 12	Sample 12
Sample 13	113	Sample 13	100g	100g	100ml	10/10/10	Sample 13	Sample 13	Sample 13
Sample 14	114	Sample 14	100g	100g	100ml	10/10/10	Sample 14	Sample 14	Sample 14
Sample 15	115	Sample 15	100g	100g	100ml	10/10/10	Sample 15	Sample 15	Sample 15
Sample 16	116	Sample 16	100g	100g	100ml	10/10/10	Sample 16	Sample 16	Sample 16
Sample 17	117	Sample 17	100g	100g	100ml	10/10/10	Sample 17	Sample 17	Sample 17
Sample 18	118	Sample 18	100g	100g	100ml	10/10/10	Sample 18	Sample 18	Sample 18
Sample 19	119	Sample 19	100g	100g	100ml	10/10/10	Sample 19	Sample 19	Sample 19
Sample 20	120	Sample 20	100g	100g	100ml	10/10/10	Sample 20	Sample 20	Sample 20

Final Analysis Report on Performance

Quality Control Sample Performance Assessment



Annual Quality Control Sample Performance Assessment

Year: 2023
 Month: 12
 Day: 31
 Time: 10:00 AM
 Location: [Redacted]

Item	Value
1. [Redacted]	100%
2. [Redacted]	100%
3. [Redacted]	100%
4. [Redacted]	100%
5. [Redacted]	100%
6. [Redacted]	100%
7. [Redacted]	100%
8. [Redacted]	100%
9. [Redacted]	100%
10. [Redacted]	100%

Item	Value
1. [Redacted]	100%
2. [Redacted]	100%
3. [Redacted]	100%
4. [Redacted]	100%
5. [Redacted]	100%
6. [Redacted]	100%
7. [Redacted]	100%
8. [Redacted]	100%
9. [Redacted]	100%
10. [Redacted]	100%

Item	Value
1. [Redacted]	100%
2. [Redacted]	100%
3. [Redacted]	100%
4. [Redacted]	100%
5. [Redacted]	100%
6. [Redacted]	100%
7. [Redacted]	100%
8. [Redacted]	100%
9. [Redacted]	100%
10. [Redacted]	100%

Item	Value
1. [Redacted]	100%
2. [Redacted]	100%
3. [Redacted]	100%
4. [Redacted]	100%
5. [Redacted]	100%
6. [Redacted]	100%
7. [Redacted]	100%
8. [Redacted]	100%
9. [Redacted]	100%
10. [Redacted]	100%

Item	Value
1. [Redacted]	100%
2. [Redacted]	100%
3. [Redacted]	100%
4. [Redacted]	100%
5. [Redacted]	100%
6. [Redacted]	100%
7. [Redacted]	100%
8. [Redacted]	100%
9. [Redacted]	100%
10. [Redacted]	100%

All information is provided for informational purposes only. It is not intended to be used for any other purpose.

Comments

Project: [Redacted]

Handwritten signature/initials

Quality Control Sample Performance Assessment

10/10/2018

Lab: 40208
 Analyst: J. J. [unclear]
 Method: 10000
 Unit: 100

Sample ID	Result	Unit
10000-001	100	100
10000-002	100	100
10000-003	100	100
10000-004	100	100
10000-005	100	100

Sample ID	Result	Unit
10000-006	100	100
10000-007	100	100
10000-008	100	100
10000-009	100	100
10000-010	100	100
10000-011	100	100
10000-012	100	100
10000-013	100	100
10000-014	100	100
10000-015	100	100
10000-016	100	100
10000-017	100	100
10000-018	100	100
10000-019	100	100
10000-020	100	100

Sample ID	Result	Unit
10000-021	100	100
10000-022	100	100
10000-023	100	100
10000-024	100	100
10000-025	100	100
10000-026	100	100
10000-027	100	100
10000-028	100	100
10000-029	100	100
10000-030	100	100

10/10/2018

Sample ID	Result	Unit
10000-031	100	100
10000-032	100	100
10000-033	100	100
10000-034	100	100
10000-035	100	100
10000-036	100	100
10000-037	100	100
10000-038	100	100
10000-039	100	100
10000-040	100	100
10000-041	100	100
10000-042	100	100
10000-043	100	100
10000-044	100	100
10000-045	100	100
10000-046	100	100
10000-047	100	100
10000-048	100	100
10000-049	100	100
10000-050	100	100

Sample ID	Result	Unit
10000-051	100	100
10000-052	100	100
10000-053	100	100
10000-054	100	100
10000-055	100	100
10000-056	100	100
10000-057	100	100
10000-058	100	100
10000-059	100	100
10000-060	100	100
10000-061	100	100
10000-062	100	100
10000-063	100	100
10000-064	100	100
10000-065	100	100
10000-066	100	100
10000-067	100	100
10000-068	100	100
10000-069	100	100
10000-070	100	100

10/10/2018

10/10/2018

Quality Control Sample Performance Assessment

Assessment of the Laboratory's Quality Control Sample Performance

Date: 11/15/11
 Analyst: JRM
 Sample ID: 111111
 Method: 1111



Parameter	Target Value	Observed Value	Acceptance Criteria
Parameter 1	100.0	100.0	± 2.0%
Parameter 2	200.0	200.0	± 2.0%
Parameter 3	300.0	300.0	± 2.0%
Parameter 4	400.0	400.0	± 2.0%
Parameter 5	500.0	500.0	± 2.0%

Parameter	Target Value	Observed Value	Acceptance Criteria
Parameter 1	100.0	100.0	± 2.0%
Parameter 2	200.0	200.0	± 2.0%
Parameter 3	300.0	300.0	± 2.0%
Parameter 4	400.0	400.0	± 2.0%
Parameter 5	500.0	500.0	± 2.0%

Parameter	Target Value	Observed Value	Acceptance Criteria
Parameter 1	100.0	100.0	± 2.0%
Parameter 2	200.0	200.0	± 2.0%
Parameter 3	300.0	300.0	± 2.0%
Parameter 4	400.0	400.0	± 2.0%
Parameter 5	500.0	500.0	± 2.0%

Assessment of the Laboratory's Quality Control Sample Performance

Date: 11/15/11
 Analyst: JRM
 Sample ID: 111111
 Method: 1111

Parameter	Target Value	Observed Value	Acceptance Criteria
Parameter 1	100.0	100.0	± 2.0%
Parameter 2	200.0	200.0	± 2.0%
Parameter 3	300.0	300.0	± 2.0%
Parameter 4	400.0	400.0	± 2.0%
Parameter 5	500.0	500.0	± 2.0%

Parameter	Target Value	Observed Value	Acceptance Criteria
Parameter 1	100.0	100.0	± 2.0%
Parameter 2	200.0	200.0	± 2.0%
Parameter 3	300.0	300.0	± 2.0%
Parameter 4	400.0	400.0	± 2.0%
Parameter 5	500.0	500.0	± 2.0%



May 13, 2021

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

RE: Project: MCDONOUGH UPGRADIENT MISC
Pace Project No.: 92524833

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 12, 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,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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 MISC
Pace Project No.: 92524833

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT MISC
Pace Project No.: 92524833

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524833001	DGWA-70A	Water	03/01/21 13:22	03/02/21 08:45
92524833002	DGWA-71	Water	03/01/21 15:18	03/02/21 08:45
92524833003	DGWA-53	Water	03/12/21 12:28	03/12/21 17:23

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT MISC

Pace Project No.: 92524833

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524833001	DGWA-70A	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524833002	DGWA-71	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524833003	DGWA-53	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	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 UPGRADIENT MISC

Pace Project No.: 92524833

Sample: DGWA-70A		Lab ID: 92524833001		Collected: 03/01/21 13:22		Received: 03/02/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:54		
pH	5.43	Std. Units			1		03/22/21 11:54		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	1.6	mg/L	0.20	0.056	1	03/03/21 10:17	03/03/21 17:30	7440-09-7	
Sodium	2.6	mg/L	1.0	0.26	1	03/03/21 10:17	03/03/21 17:30	7440-23-5	
Magnesium	2.1	mg/L	0.050	0.0076	1	03/03/21 10:17	03/03/21 17:30	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	20.4	mg/L	5.0	5.0	1		03/12/21 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 15:20		
Alkalinity, Total as CaCO3	20.4	mg/L	5.0	5.0	1		03/12/21 15:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT MISC

Pace Project No.: 92524833

Sample: DGWA-71 **Lab ID: 92524833002** Collected: 03/01/21 15:18 Received: 03/02/21 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:54		
pH	5.80	Std. Units			1		03/22/21 11:54		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	0.76	mg/L	0.20	0.056	1	03/03/21 10:17	03/03/21 17:34	7440-09-7	
Sodium	8.6	mg/L	1.0	0.26	1	03/03/21 10:17	03/03/21 17:34	7440-23-5	
Magnesium	0.85	mg/L	0.050	0.0076	1	03/03/21 10:17	03/03/21 17:34	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	23.9	mg/L	5.0	5.0	1		03/12/21 15:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/12/21 15:39		
Alkalinity, Total as CaCO3	23.9	mg/L	5.0	5.0	1		03/12/21 15:39		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT MISC

Pace Project No.: 92524833

Sample: DGWA-53		Lab ID: 92524833003		Collected: 03/12/21 12:28		Received: 03/12/21 17:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:54		
pH	6.38	Std. Units			1		03/22/21 11:54		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.9	mg/L	0.20	0.056	1	03/18/21 12:20	03/22/21 15:07	7440-09-7	
Sodium	9.0	mg/L	1.0	0.26	1	03/18/21 12:20	03/20/21 16:45	7440-23-5	
Magnesium	6.5	mg/L	0.050	0.0076	1	03/18/21 12:20	03/20/21 16:45	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	91.0	mg/L	5.0	5.0	1		03/24/21 15:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/24/21 15:45		
Alkalinity, Total as CaCO3	91.0	mg/L	5.0	5.0	1		03/24/21 15:45		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT MISC

Pace Project No.: 92524833

QC Batch: 603832	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524833001, 92524833002

METHOD BLANK: 3180960 Matrix: Water

Associated Lab Samples: 92524833001, 92524833002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	ND	0.050	0.0076	03/03/21 17:08	
Potassium	mg/L	ND	0.20	0.056	03/03/21 17:08	
Sodium	mg/L	ND	1.0	0.26	03/03/21 17:08	

LABORATORY CONTROL SAMPLE: 3180961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	105	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3180962 3180963

Parameter	Units	92524853001		3180962		3180963		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							MS % Rec	MSD % Rec
Magnesium	mg/L	3.5	4.7	1	1	4.7	4.8	112	125	75-125	3	20	
Potassium	mg/L	4.0	5.1	1	1	5.1	5.2	110	123	75-125	3	20	
Sodium	mg/L	7.5	8.8	1	1	8.8	9.0	137	150	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT MISC
 Pace Project No.: 92524833

QC Batch: 607584 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524833003

METHOD BLANK: 3200680 Matrix: Water

Associated Lab Samples: 92524833003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	0.0082J	0.050	0.0076	03/20/21 00:30	
Potassium	mg/L	ND	0.20	0.056	03/20/21 00:30	
Sodium	mg/L	ND	1.0	0.26	03/20/21 00:30	

LABORATORY CONTROL SAMPLE: 3200681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200682 3200683

Parameter	Units	92524632021		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							% Rec	% Rec
Magnesium	mg/L	18.4	1	1	20.6	20.4	221	194	75-125	1	20	M1	
Potassium	mg/L	0.75	1	1	1.9	2.0	115	121	75-125	3	20		
Sodium	mg/L	2.1	1	1	3.3	3.3	124	120	75-125	1	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT MISC

Pace Project No.: 92524833

QC Batch: 606220

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92524833001, 92524833002

METHOD BLANK: 3193657

Matrix: Water

Associated Lab Samples: 92524833001, 92524833002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/12/21 12:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/12/21 12:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/12/21 12:40	

LABORATORY CONTROL SAMPLE: 3193658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193659 3193660

Parameter	Units	92526098001		3193660		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	496	50	506	510	20	28	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193661 3193662

Parameter	Units	92526099006		3193662		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	25.2	25.5	50	51	80-120	1	25	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT MISC
 Pace Project No.: 92524833

QC Batch: 608537 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92524833003

METHOD BLANK: 3205445 Matrix: Water
 Associated Lab Samples: 92524833003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/24/21 11:50	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/24/21 11:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/24/21 11:50	

LABORATORY CONTROL SAMPLE: 3205446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3206750 3206751

Parameter	Units	92528425003		3206751		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	87.1	50	50	135	135	96	96	80-120	0	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3206752 3206753

Parameter	Units	92528425004		3206753		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	50	54.6	54.3	106	106	80-120	1	25

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH UPGRADIENT MISC

Pace Project No.: 92524833

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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 MISC

Pace Project No.: 92524833

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524833001	DGWA-70A				
92524833002	DGWA-71				
92524833003	DGWA-53				
92524833001	DGWA-70A	EPA 3010A	603832	EPA 6010D	603942
92524833002	DGWA-71	EPA 3010A	603832	EPA 6010D	603942
92524833003	DGWA-53	EPA 3010A	607584	EPA 6010D	607676
92524833001	DGWA-70A	SM 2320B-2011	606220		
92524833002	DGWA-71	SM 2320B-2011	606220		
92524833003	DGWA-53	SM 2320B-2011	608537		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.07

Page 1 of 2

Issuing Authority:

Pace Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 92524833



92524833

Courier: Commercial Fed Ex UPS USPS Client

Leak power - cool combustion accident
 Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *PT 3/2/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 233 Type of Ice: Dry Blue None

Cooler Temp: 1.1 Correction Factor Add/Subtract (°C) 30.4

Temp should be above freezing to 5°C

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

Cooler Temp Corrected (°C): 1.5

USDA Regulated Soil? N/A, water sample

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

Yes No

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

Comments/Discrepancy:

Chain of Custody Present?	Yes	No	N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Short Hold Time Analysis (<72 hr.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Batch Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
-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 checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
-Includes Date/Time/ID/Analysis Matrix:	<i>WT</i>			
Headspace in YOA 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 SRP 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/ROTS (water) DOC, LMH

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

Project #

WO# : 92524833

PR: KLH1

Due Date: 03/18/21

CLIENT: GR-GR Power

Brand	BP10-125 ml Plastic Unpreserved (N/A) (D-1)	BP20-250 ml Plastic Unpreserved (N/A)	BP30-500 ml Plastic Unpreserved (N/A)	BP10-1 liter Plastic Unpreserved (N/A)	BP40-125 ml Plastic HDPE (pH < 2) (C-1)	BP30-125 ml Plastic HDPE (pH < 2)	BP40-125 ml Plastic HDPE (pH > 12) (C-1)	W030-Wide mouthed Glass jar Unpreserved	A030-1 liter Amber Unpreserved (N/A) (D-1)	A030-1 liter Amber HD (pH < 2)	A030-250 ml Amber Unpreserved (N/A) (D-1)	A030-1 liter Amber HD504 (pH < 2)	A030-250 ml Amber HD504 (pH < 2)	A030(B030)-250 ml Amber HD504 (N/A)(D-1)	D030-40 ml VOA HD (N/A)	V030-40 ml VOA HD503 (N/A)	V030-40 ml VOA HD (N/A)	D030-40 ml VOA HD504 (N/A)	V030 (8 vials per 40-5035 lot) (N/A)	V130 (3 vials per 40-5035/504 lot) (N/A)	SP07-125 ml Sorbta Plastic (N/A - lot)	SP07-250 ml Sorbta Plastic (N/A - lot)	BP14-250 ml Plastic (N/A-12504 (B 1-9 7)	A050-100 ml amber Unpreserved vials (N/A)	V050-20 ml Sorbation vials (N/A)	D050-40 ml Amber Unpreserved vials (N/A)		
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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



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

Section 1 Requester Information		Section 2 Requested Project Information		Section 3 Sample Information	
Company: Parsippany, NJ	Project No: 1000000000	Requester: [Name]	Request Date: [Date]	Sample ID: [Blank]	Sample Location: [Blank]
Contact: [Name]	Address: [Address]	Company Name: [Name]	Project Name: [Name]	Sample Type: [Blank]	Sample Quantity: [Blank]
Phone: [Phone]	City/State/Zip: [City, State, Zip]	Project Start: [Date]	Project End: [Date]	Sample Description: [Blank]	Sample Container: [Blank]
Approved Date: [Date]	Approved By: [Signature]	Requested Through: [Blank]	Requested By: [Blank]	Sample Storage: [Blank]	Sample Handling: [Blank]

DATE	SAMPLE ID	ANALYSIS REQUESTED	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS TIME	ANALYST	LABORATORY	ANALYSIS RESULTS					REMARKS	
								1	2	3	4	5		
2	1000000000	TEVOC	TEVOC	9-2-21	8:30	[Name]	[Lab]							
3	1000000000	TEVOC	TEVOC	9-2-21	9:45	[Name]	[Lab]							
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														

ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS TIME	ANALYST	LABORATORY	REMARKS
TEVOC	9-2-21	8:30	[Name]	[Lab]	
TEVOC	9-2-21	9:45	[Name]	[Lab]	

TEVOC Request

Requester: [Name]

Request Date: [Date]

Request Time: [Time]

Requester Signature: [Signature]



CHAIN-OF-CUSTODY / Analytical Request Document

This Chain of Custody, or related LOGS, DOCUMENTS and/or related reports must be completed for every sample.

Section 1

Request Form information

Section 2

Requester's request information

Section 3

Requester's contact information

Page 1 of 17

Company 14000 Hwy 100 Mesa, AZ 85204 Phone 520.460.1000 Fax 520.460.1001	Requester Name Requester Title Requester Email Requester Phone	Requester Address Requester City Requester State Requester Zip Requester Country	Requester Fax Requester Email Requester Phone
--	---	--	---

Date	Sample ID	Requester Name	Requester Title	Requester Address	Requester City	Requester State	Requester Zip	Requester Country	Requested Analysis Method (RM)					Requester's Note			
									RM 1	RM 2	RM 3	RM 4	RM 5				

Requested Analysis Method (RM)	RM 1	RM 2	RM 3	RM 4	RM 5	Requester's Note

Requester's Signature: *Charles H. ...* Date: 3/2/24



May 13, 2021

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

RE: Project: AP-234 Assessment Rads
Pace Project No.: 92530282

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 04, 2021 and March 11, 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

Revision 1 - This report replaces the April 14, 2021 report. This project was revised on April 22, 2021 to reflect the 226/228 calculation missing from one sample. (Greensburg, PA)

Revision 2 - This report replaces the April 22, 2021 report. This project was revised on May 3, 2021 in order to remove Sample 92524825025 from report as per client request.

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: 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: AP-234 Assessment Rads
Pace Project No.: 92530282

Pace Analytical Services Pennsylvania

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524825015	B-56	Water	03/03/21 15:15	03/04/21 09:00
92524825029	B-77	Water	03/04/21 12:22	03/05/21 16:16
92524825030	B-83	Water	03/04/21 14:57	03/05/21 16:16
92524825026	B-88	Water	03/05/21 11:25	03/05/21 16:16
92524825027	B-101D	Water	03/05/21 10:25	03/05/21 16:16
92524825028	B-111D	Water	03/05/21 09:55	03/05/21 16:16
92524825031	B-102D	Water	03/04/21 15:07	03/05/21 16:16
92524825032	B-104D	Water	03/04/21 14:40	03/05/21 16:16
92524825033	B-106D	Water	03/04/21 10:07	03/05/21 16:16
92524825034	B-107D	Water	03/04/21 11:45	03/05/21 16:16
92524825035	B-108D	Water	03/04/21 10:08	03/05/21 16:16
92524825039	B-109D	Water	03/08/21 12:58	03/09/21 09:30
92526990001	B-93	Water	03/09/21 14:52	03/11/21 08:50
92524825036	DUP-2	Water	03/04/21 00:00	03/05/21 16:16
92524825037	FB-2	Water	03/04/21 10:40	03/05/21 16:16
92524825038	EB-2	Water	03/04/21 13:20	03/05/21 16:16

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92524825015	B-56	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825029	B-77	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825030	B-83	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825026	B-88	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825027	B-101D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825028	B-111D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825031	B-102D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825032	B-104D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825033	B-106D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825034	B-107D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825035	B-108D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825039	B-109D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92526990001	B-93	EPA 9315	CLA	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92524825036	DUP-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92524825037	FB-2	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92524825038	EB-2	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: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-56 Lab ID: 92524825015 Collected: 03/03/21 15:15 Received: 03/04/21 09:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.592 ± 0.353 (0.602) C:77% T:NA	pCi/L	03/26/21 09:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.414 ± 0.352 (0.705) C:80% T:87%	pCi/L	03/25/21 14:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.01 ± 0.705 (1.31)	pCi/L	03/31/21 15:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-77 Lab ID: 92524825029 Collected: 03/04/21 12:22 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.543 ± 0.370 (0.666) C:71% T:NA	pCi/L	03/26/21 09:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.62 ± 0.757 (1.32) C:76% T:85%	pCi/L	03/25/21 19:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.16 ± 1.13 (1.99)	pCi/L	04/01/21 12:53	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-83 Lab ID: 92524825030 Collected: 03/04/21 14:57 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.314 ± 0.265 (0.499) C:80% T:NA	pCi/L	03/26/21 09:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.831 ± 0.648 (1.29) C:73% T:87%	pCi/L	03/25/21 19:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.15 ± 0.913 (1.79)	pCi/L	04/01/21 12:53	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-88 Lab ID: 92524825026 Collected: 03/05/21 11:25 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.28 ± 0.389 (0.358) C:113% T:NA	pCi/L	03/26/21 10:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.56 ± 0.638 (1.04) C:73% T:79%	pCi/L	03/25/21 15:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.84 ± 1.03 (1.40)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-101D Lab ID: 92524825027 Collected: 03/05/21 10:25 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.885 ± 0.370 (0.451) C:84% T:NA	pCi/L	03/26/21 10:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.28 ± 0.527 (0.841) C:77% T:81%	pCi/L	03/25/21 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.17 ± 0.897 (1.29)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-111D Lab ID: 92524825028 Collected: 03/05/21 09:55 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	4.00 ± 0.748 (0.386) C:84% T:NA	pCi/L	04/13/21 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	5.05 ± 1.18 (0.943) C:71% T:80%	pCi/L	03/25/21 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	9.05 ± 1.93 (1.33)	pCi/L	04/14/21 15:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-102D Lab ID: 92524825031 Collected: 03/04/21 15:07 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.188 ± 0.169 (0.297) C:95% T:NA	pCi/L	03/26/21 09:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.601 ± 0.572 (1.17) C:73% T:84%	pCi/L	03/25/21 19:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.789 ± 0.741 (1.47)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-104D Lab ID: 92524825032 Collected: 03/04/21 14:40 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	4.48 ± 0.813 (0.312) C:82% T:NA	pCi/L	04/13/21 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	9.97 ± 2.11 (1.22) C:75% T:88%	pCi/L	03/25/21 19:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	14.5 ± 2.92 (1.53)	pCi/L	04/14/21 15:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-106D Lab ID: 92524825033 Collected: 03/04/21 10:07 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.159 ± 0.208 (0.442) C:82% T:NA	pCi/L	03/26/21 10:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.522 ± 0.636 (1.35) C:73% T:91%	pCi/L	03/25/21 19:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.681 ± 0.844 (1.79)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-107D Lab ID: 92524825034 Collected: 03/04/21 11:45 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.627 ± 0.285 (0.335) C:87% T:NA	pCi/L	03/26/21 10:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.51 ± 0.727 (1.25) C:74% T:82%	pCi/L	03/25/21 19:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.14 ± 1.01 (1.59)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-108D Lab ID: 92524825035 Collected: 03/04/21 10:08 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.648 ± 0.364 (0.601) C:77% T:NA	pCi/L	03/26/21 10:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.37 ± 0.689 (1.19) C:73% T:77%	pCi/L	03/25/21 18:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.02 ± 1.05 (1.79)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-109D Lab ID: 92524825039 Collected: 03/08/21 12:58 Received: 03/09/21 09:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	4.98 ± 0.888 (0.226) C:76% T:NA	pCi/L	04/13/21 09:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	7.14 ± 1.52 (1.02) C:75% T:82%	pCi/L	03/30/21 12:37	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	12.1 ± 2.41 (1.25)	pCi/L	04/22/21 14:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-93 Lab ID: 92526990001 Collected: 03/09/21 14:52 Received: 03/11/21 08:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.307 ± 0.222 (0.435) C:92% T:NA	pCi/L	03/29/21 07:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.479 ± 0.455 (0.936) C:66% T:82%	pCi/L	04/07/21 12:39	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.786 ± 0.677 (1.37)	pCi/L	04/08/21 10:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DUP-2 Lab ID: 92524825036 Collected: 03/04/21 00:00 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.587 ± 0.508 (1.06) C:74% T:NA	pCi/L	03/26/21 10:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.10 ± 0.480 (0.768) C:71% T:86%	pCi/L	03/25/21 15:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.69 ± 0.988 (1.83)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-2 Lab ID: 92524825037 Collected: 03/04/21 10:40 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.454 ± 0.421 (0.870) C:68% T:NA	pCi/L	03/26/21 10:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.430 ± 0.360 (0.720) C:73% T:92%	pCi/L	03/25/21 15:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.884 ± 0.781 (1.59)	pCi/L	04/01/21 12:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-2 Lab ID: 92524825038 Collected: 03/04/21 13:20 Received: 03/05/21 16:16 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0418 ± 0.221 (0.558) C:69% T:NA	pCi/L	03/26/21 10:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.0780 ± 0.432 (1.01) C:72% T:82%	pCi/L	03/25/21 15:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0418 ± 0.653 (1.57)	pCi/L	04/01/21 12:53	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AP-234 Assessment Rads
 Pace Project No.: 92530282

QC Batch: 440194	Analysis Method: EPA 9320
QC Batch Method: EPA 9320	Analysis Description: 9320 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92526990001

METHOD BLANK: 2125114 Matrix: Water

Associated Lab Samples: 92526990001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.922 ± 0.466 (0.823) C:75% T:77%	pCi/L	04/07/21 12:38	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

QC Batch: 439254

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92524825015

METHOD BLANK: 2120782

Matrix: Water

Associated Lab Samples: 92524825015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.134 ± 0.193 (0.418) C:81% T:NA	pCi/L	03/26/21 09:03	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

QC Batch: 439289

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92524825015

METHOD BLANK: 2120846

Matrix: Water

Associated Lab Samples: 92524825015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.155 ± 0.270 (0.589) C:71% T:101%	pCi/L	03/25/21 11:03	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AP-234 Assessment Rads
 Pace Project No.: 92530282

QC Batch:	439252	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92524825026, 92524825027, 92524825028, 92524825029, 92524825030, 92524825031, 92524825032, 92524825033, 92524825034, 92524825035, 92524825036, 92524825037, 92524825038, 92524825039

METHOD BLANK: 2120781 Matrix: Water

Associated Lab Samples: 92524825026, 92524825027, 92524825028, 92524825029, 92524825030, 92524825031, 92524825032, 92524825033, 92524825034, 92524825035, 92524825036, 92524825037, 92524825038, 92524825039

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.113 ± 0.316 (0.862) C:65% T:NA	pCi/L	03/26/21 09:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

QC Batch: 437599

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2112389

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00470 ± 0.0712 (0.214) C:85% T:NA	pCi/L	03/15/21 09:18	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

QC Batch: 439779

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92526990001

METHOD BLANK: 2123480

Matrix: Water

Associated Lab Samples: 92526990001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00660 ± 0.163 (0.432) C:92% T:NA	pCi/L	03/29/21 08:25	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

QC Batch: 440029

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92524825039

METHOD BLANK: 2124494

Matrix: Water

Associated Lab Samples: 92524825039

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.131 ± 0.269 (0.653) C:79% T:93%	pCi/L	03/30/21 12:34	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

QC Batch: 437641

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2112538

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.312 ± 0.330 (0.686) C:82% T:90%	pCi/L	03/15/21 16:07	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: AP-234 Assessment Rads
 Pace Project No.: 92530282

QC Batch:	439287	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92524825026, 92524825027, 92524825028, 92524825029, 92524825030, 92524825031, 92524825032, 92524825033, 92524825034, 92524825035, 92524825036, 92524825037, 92524825038

METHOD BLANK: 2120842 Matrix: Water

Associated Lab Samples: 92524825026, 92524825027, 92524825028, 92524825029, 92524825030, 92524825031, 92524825032, 92524825033, 92524825034, 92524825035, 92524825036, 92524825037, 92524825038

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.803 ± 0.463 (0.841) C:75% T:71%	pCi/L	03/25/21 15:49	

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QUALIFIERS

Project: AP-234 Assessment Rads

Pace Project No.: 92530282

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AP-234 Assessment Rads
 Pace Project No.: 92530282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524825015	B-56	EPA 9315	439254		
92524825026	B-88	EPA 9315	439252		
92524825027	B-101D	EPA 9315	439252		
92524825028	B-111D	EPA 9315	439252		
92524825029	B-77	EPA 9315	439252		
92524825030	B-83	EPA 9315	439252		
92524825031	B-102D	EPA 9315	439252		
92524825032	B-104D	EPA 9315	439252		
92524825033	B-106D	EPA 9315	439252		
92524825034	B-107D	EPA 9315	439252		
92524825035	B-108D	EPA 9315	439252		
92524825036	DUP-2	EPA 9315	439252		
92524825037	FB-2	EPA 9315	439252		
92524825038	EB-2	EPA 9315	439252		
92524825039	B-109D	EPA 9315	439252		
92526990001	B-93	EPA 9315	439779		
92524825015	B-56	EPA 9320	439289		
92524825026	B-88	EPA 9320	439287		
92524825027	B-101D	EPA 9320	439287		
92524825028	B-111D	EPA 9320	439287		
92524825029	B-77	EPA 9320	439287		
92524825030	B-83	EPA 9320	439287		
92524825031	B-102D	EPA 9320	439287		
92524825032	B-104D	EPA 9320	439287		
92524825033	B-106D	EPA 9320	439287		
92524825034	B-107D	EPA 9320	439287		
92524825035	B-108D	EPA 9320	439287		
92524825036	DUP-2	EPA 9320	439287		
92524825037	FB-2	EPA 9320	439287		
92524825038	EB-2	EPA 9320	439287		
92524825039	B-109D	EPA 9320	440029		
92526990001	B-93	EPA 9320	440194		
92524825015	B-56	Total Radium Calculation	441252		
92524825026	B-88	Total Radium Calculation	441392		
92524825027	B-101D	Total Radium Calculation	441392		
92524825028	B-111D	Total Radium Calculation	443356		
92524825029	B-77	Total Radium Calculation	441392		
92524825030	B-83	Total Radium Calculation	441392		
92524825031	B-102D	Total Radium Calculation	441392		
92524825032	B-104D	Total Radium Calculation	443356		
92524825033	B-106D	Total Radium Calculation	441392		
92524825034	B-107D	Total Radium Calculation	441392		
92524825035	B-108D	Total Radium Calculation	441392		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AP-234 Assessment Rads
Pace Project No.: 92530282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524825036	DUP-2	Total Radium Calculation	441392		
92524825037	FB-2	Total Radium Calculation	441392		
92524825038	EB-2	Total Radium Calculation	441392		
92524825039	B-109D	Total Radium Calculation	444577		
92526990001	B-93	Total Radium Calculation	442421		

REPORT OF LABORATORY ANALYSIS

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

Document Revised: October 28, 2009
Page 1 of 2
Issuing Authority:
Face Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #

WO#: 92524825

County: Commercial Fed Ex UPS USPS Client Face Other _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: PC 3/2/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: All-Gun ID: 214 Type of Ice: Dry Blue None

Yes No N/A

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) 10.4

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 1.5

USDA Regulated Soil (N/A, water sample)

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

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match DOC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	wt	
Headspace in VOA vials (≤5-dmm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCUR Review: _____ Date: _____

Project Manager SRP Review: _____ Date: _____



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

Section 1
 Requester Information

Requester Name: [Blank]
 Requester Title: [Blank]
 Requester Email: [Blank]
 Requester Phone: [Blank]
 Requester Address: [Blank]
 Requester City: [Blank]
 Requester State: [Blank]
 Requester Zip: [Blank]

Section 2
 Sample Information

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

Section 3
 Laboratory Information

Laboratory Name: [Blank]
 Laboratory Address: [Blank]
 Laboratory City: [Blank]
 Laboratory State: [Blank]
 Laboratory Zip: [Blank]

ITEM #	SAMPLE ID	Description	Quantity	Unit	Material	Analysis Test	Y/N	Remarks
1	148							
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Additional Comments: [Blank]

Signature: [Blank]

Date: [Blank]

Time: [Blank]

Initials: [Blank]



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 Client Information		Section 2 Requested Project Information		Section 3 Project Information	
Client Name	1170 Pleasant Hill	Project To	John Simpson	Location	
Client Address	2000 Sutter St., Sausalito, CA 94965	Project From	4/20/2014	Company Name	
Client Contact	John Simpson	Project Name	400000000	Project Name	
Client Phone	415-456-1000	Project #		Client Project Manager	John Simpson
		Project #		Client Project #	10001
		Project #		Project Name	
		Project #		Client Project Manager	John Simpson
		Project #		Client Project #	10001

SAMPLE ID	DATE	TIME	COLLECTOR	START DATE	END DATE	SAMPLE TYPE (S-CODE C-CODE)	NATURE CODE (See field codes to left)	COLLECTOR		ANALYSIS TEST	PH
								START	END		
								DATE	TIME		
B-88	5/6/2014	11:25									
B-101D	5/6/2014	11:35									PH: 5.21
B-111D	5/6/2014	01:55									PH: 6.52
											PH: 6.65

APPROVAL COMMENTS	RECOMMENDATION BY (DATE/TIME)	DATE	TIME	ACCOUNTING INFORMATION	DATE	TIME	ANALYST COMMENTS
APPROVED BY: AS, SA, B, DC, BC, CA, U	3/2	01		3-501	11/20/14		3/24/14
AS, CA, DC, B, SA, BC, SA, TS							

ANALYST SIGNATURE AND INFORMATION	DATE/TIME
PHOTO NUMBER OF SAMPLE(S)	
ANALYST NAME (if Sample(s))	
ANALYST TYPE (if Sample(s))	



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

Page: 1 OF 1

Section A	Section B	Section C
Analytical Request Information Requester: [Name] Request Date: [Date] Request Location: [Location]	Analytical Request Information Requester: [Name] Request Date: [Date] Request Location: [Location]	Analytical Request Information Requester: [Name] Request Date: [Date] Request Location: [Location]

ITEM #	SAMPLE ID	Lot #	Date of Manufacture	Lot #	Date of Manufacture	Physical Properties		Analytical Test				Residual Chrome (ppm)
						Color	Weight	Moisture	Hardness	Moisture	Hardness	
1	8-17	00	2008	100	100	100	100	100	100	100	100	100
2	8-18	00	2008	100	100	100	100	100	100	100	100	100
3	8-19	00	2008	100	100	100	100	100	100	100	100	100
4	8-20	00	2008	100	100	100	100	100	100	100	100	100
5	8-21	00	2008	100	100	100	100	100	100	100	100	100
6	8-22	00	2008	100	100	100	100	100	100	100	100	100
7	8-23	00	2008	100	100	100	100	100	100	100	100	100
8	8-24	00	2008	100	100	100	100	100	100	100	100	100
9	8-25	00	2008	100	100	100	100	100	100	100	100	100
10	8-26	00	2008	100	100	100	100	100	100	100	100	100
11	8-27	00	2008	100	100	100	100	100	100	100	100	100
12	8-28	00	2008	100	100	100	100	100	100	100	100	100
13	8-29	00	2008	100	100	100	100	100	100	100	100	100
14	8-30	00	2008	100	100	100	100	100	100	100	100	100

Total # of []
 Requested by []
 Collected by []
 Sample no. []



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

Page: 1 of 1

Section A Requester (Client Information)	Section B Requester (Project Information)	Section C Sample Information
Company: <u>Shaw's Dairy - Cow Milk and Butter</u>	Project ID: <u>2017-000000</u>	Sample ID: <u>2017-000000</u>
Contact: <u>Shaw's Dairy</u>	Client Name: <u>Shaw's Dairy</u>	Client Address: <u>Shaw's Dairy</u>
Address: <u>Shaw's Dairy</u>	Request Date: <u>2017-00-00</u>	Request Time: <u>2017-00-00</u>
City: <u>Shaw's Dairy</u>	Requester Name: <u>Shaw's Dairy</u>	Requester Title: <u>Shaw's Dairy</u>
State: <u>Shaw's Dairy</u>	Requester Phone: <u>Shaw's Dairy</u>	Requester Email: <u>Shaw's Dairy</u>
Country: <u>Shaw's Dairy</u>	Requester Signature: <u>Shaw's Dairy</u>	Requester Date: <u>Shaw's Dairy</u>
Requester Fax: <u>Shaw's Dairy</u>	Requester Signature (Print): <u>Shaw's Dairy</u>	Requester Date (Print): <u>Shaw's Dairy</u>

ITEM #	SAMPLE ID	DATE	TIME	LOCATION	ANALYSIS TEST	RESULTS	ANALYST	LAB	STATUS	REMARKS
1	2017-000000	2017-00-00	2017-00-00	Shaw's Dairy	<input type="checkbox"/> Volatile Acids <input type="checkbox"/> Total Solids <input type="checkbox"/> Lactose <input type="checkbox"/> Fat <input type="checkbox"/> Protein <input type="checkbox"/> Ash <input type="checkbox"/> Moisture					
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

Requester Signature	Requester Date	Analyst Signature	Analyst Date

P. Manning

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a critical document. All relevant fields must be completed accurately.

WO#: 92526990



Page: 1 of 1

Section A Required Client Information

Client Name: [Redacted] Client Address: [Redacted]
Client Phone: [Redacted] Client Email: [Redacted]
Client Website: [Redacted]

Section B Required Request Information

Request Number: [Redacted] Request Date: [Redacted]
Request Status: [Redacted] Request Type: [Redacted]

Section C Required Evidence Information

Evidence Description: [Redacted]
Quantity: [Redacted] Container Type: [Redacted]
Storage Location: [Redacted]

Section D Required Analyst Information

Analyst Name: [Redacted] Analyst ID: [Redacted]

ITEM #	SAMPLE ID	PARTICLE	ANALYSIS			ANALYSIS METHOD			ANALYSIS RESULTS			REMARKS
			DATE	TIME	UNIT	TEST	REAGENT	UNIT	UNIT	UNIT		
1	241											
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Section E Additional Comments

Comments: [Redacted]

Section F Signatures

Client Signature: [Redacted] Date: 3/11/21
Analyst Signature: [Redacted] Date: 3/11/21
Requester Signature: [Redacted] Date: 3/11/21

Section G Chain of Custody

1	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
2	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
3	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
4	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
5	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
6	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
7	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
8	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
9	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
10	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
11	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
12	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
13	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
14	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
15	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]

Quality Central Sample Performance Assessment

[Signature]
 [Name]
 [Title]

Assessment Period: 10/1/2018 - 10/31/2018

Item: All
 Status: All
 Agency: All

Agency	Count	Pass	Fail
All Agencies	1,116	778	338
Agency A	200	140	60
Agency B	300	210	90
Agency C	400	280	120
Agency D	216	148	68

Agency	Count	Pass	Fail
Agency A	200	140	60
Agency B	300	210	90
Agency C	400	280	120
Agency D	216	148	68

Agency	Count	Pass	Fail
Agency A	200	140	60
Agency B	300	210	90
Agency C	400	280	120
Agency D	216	148	68

Agency	Count	Pass	Fail
Agency A	200	140	60
Agency B	300	210	90
Agency C	400	280	120
Agency D	216	148	68

Agency	Count	Pass	Fail
Agency A	200	140	60
Agency B	300	210	90
Agency C	400	280	120
Agency D	216	148	68

Quality Central Sample Performance Assessment Report

10/31/2018

10/31/2018

Quality Control Sample Performance Assessment

Sample No: 10/10/2000

Sample No	Sample Name	Sample Type	Sample Size	Sample Date	Sample Location	Sample Status
10/10/2000	10/10/2000	10/10/2000	10/10/2000	10/10/2000	10/10/2000	10/10/2000

Sample No	Sample Name	Sample Type	Sample Size	Sample Date	Sample Location	Sample Status
10/10/2000	10/10/2000	10/10/2000	10/10/2000	10/10/2000	10/10/2000	10/10/2000

10/10/2000

10/10/2000

10/10/2000

10/10/2000

10/10/2000

10/10/2000

10/10/2000

Quality Control Sample Performance Assessment

Project Name: [Project Name]

Start Date: [Start Date]
 End Date: [End Date]
 Location: [Location]



Sample ID	Sample Description	Sample Type	Sample Location	Sample Date	Sample Status
1
2
3
4
5
6
7
8
9
10

Sample ID	Sample Description	Sample Type	Sample Location	Sample Date	Sample Status
1
2
3
4
5
6
7
8
9
10

Sample ID	Sample Description	Sample Type	Sample Location	Sample Date	Sample Status
1
2
3
4
5
6
7
8
9
10

Sample ID	Sample Description	Sample Type	Sample Location	Sample Date	Sample Status
1
2
3
4
5
6
7
8
9
10

Sample ID	Sample Description	Sample Type	Sample Location	Sample Date	Sample Status
1
2
3
4
5
6
7
8
9
10

Notes: [Notes]

Signature: [Signature]

Date: [Date]

April 02, 2021

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

RE: Project: B-62 III & IV
Pace Project No.: 92531031

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
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: B-62 III & IV
Pace Project No.: 92531031

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: B-62 III & IV

Pace Project No.: 92531031

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526988002	B-62	Water	03/12/21 14:27	03/12/21 17:23

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: B-62 III & IV

Pace Project No.: 92531031

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92526988002	B-62	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B-62 III & IV

Pace Project No.: 92531031

Sample: B-62		Lab ID: 92526988002		Collected: 03/12/21 14:27		Received: 03/12/21 17:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:54		
pH	6.34	Std. Units			1		03/22/21 11:54		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	28.8	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 02:40	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.015	0.0014	5	03/23/21 13:05	03/24/21 13:11	7440-36-0	D3
Arsenic	ND	mg/L	0.025	0.0039	5	03/23/21 13:05	03/24/21 13:11	7440-38-2	D3
Barium	0.027	mg/L	0.025	0.0036	5	03/23/21 13:05	03/24/21 13:11	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00023	5	03/23/21 13:05	03/24/21 13:11	7440-41-7	D3
Boron	0.092J	mg/L	0.20	0.026	5	03/23/21 13:05	03/24/21 13:11	7440-42-8	D3
Cadmium	ND	mg/L	0.0025	0.00059	5	03/23/21 13:05	03/24/21 13:11	7440-43-9	D3
Chromium	ND	mg/L	0.025	0.0028	5	03/23/21 13:05	03/24/21 13:11	7440-47-3	D3
Cobalt	ND	mg/L	0.025	0.0019	5	03/23/21 13:05	03/24/21 13:11	7440-48-4	D3
Lead	ND	mg/L	0.0050	0.00018	5	03/23/21 13:05	03/24/21 13:11	7439-92-1	D3
Lithium	0.0087J	mg/L	0.15	0.0040	5	03/23/21 13:05	03/24/21 13:11	7439-93-2	D3
Molybdenum	ND	mg/L	0.050	0.0034	5	03/23/21 13:05	03/24/21 13:11	7439-98-7	D3
Selenium	ND	mg/L	0.025	0.0078	5	03/23/21 13:05	03/24/21 13:11	7782-49-2	D3
Thallium	ND	mg/L	0.0050	0.00072	5	03/23/21 13:05	03/24/21 13:11	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	0.000078	1	03/25/21 08:05	03/25/21 14:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	172	mg/L	10.0	10.0	1		03/17/21 17:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.9	mg/L	1.0	0.60	1		03/20/21 05:28	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		03/20/21 05:28	16984-48-8	
Sulfate	46.5	mg/L	1.0	0.50	1		03/20/21 05:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B-62 III & IV
 Pace Project No.: 92531031

QC Batch: 607584 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526988002

METHOD BLANK: 3200680 Matrix: Water
 Associated Lab Samples: 92526988002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/20/21 00:30	

LABORATORY CONTROL SAMPLE: 3200681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200682 3200683

Parameter	Units	3200682		3200683		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	35.7	1	39.0	38.7	328	296	75-125	1	20	M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B-62 III & IV

Pace Project No.: 92531031

QC Batch: 608528

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526988002

METHOD BLANK: 3205426

Matrix: Water

Associated Lab Samples: 92526988002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/23/21 18:59	
Arsenic	mg/L	ND	0.0050	0.00078	03/23/21 18:59	
Barium	mg/L	ND	0.0050	0.00071	03/23/21 18:59	
Beryllium	mg/L	ND	0.00050	0.000046	03/23/21 18:59	
Boron	mg/L	ND	0.040	0.0052	03/23/21 18:59	
Cadmium	mg/L	ND	0.00050	0.00012	03/23/21 18:59	
Chromium	mg/L	ND	0.0050	0.00055	03/23/21 18:59	
Cobalt	mg/L	ND	0.0050	0.00038	03/23/21 18:59	
Lead	mg/L	ND	0.0010	0.000036	03/24/21 12:59	
Lithium	mg/L	ND	0.030	0.00081	03/23/21 18:59	
Molybdenum	mg/L	ND	0.010	0.00069	03/23/21 18:59	
Selenium	mg/L	ND	0.0050	0.0016	03/23/21 18:59	
Thallium	mg/L	ND	0.0010	0.00014	03/23/21 18:59	

LABORATORY CONTROL SAMPLE: 3205427

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	0.092	92	80-120	
Barium	mg/L	0.1	0.092	92	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.094	94	80-120	
Chromium	mg/L	0.1	0.093	93	80-120	
Cobalt	mg/L	0.1	0.091	91	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Thallium	mg/L	0.1	0.087	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3205457

3205458

Parameter	Units	92527018001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.096	100	96	75-125	3	20	
Arsenic	mg/L	1.6J ug/L	0.1	0.1	0.095	0.091	93	89	75-125	4	20	

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QUALITY CONTROL DATA

Project: B-62 III & IV

Pace Project No.: 92531031

Parameter	Units	3205457		3205458		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92527018001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	14.8 ug/L	0.1	0.1	0.11	0.10	92	88	75-125	3	20		
Beryllium	mg/L	2.6 ug/L	0.1	0.1	0.091	0.089	89	87	75-125	2	20		
Boron	mg/L	4230 ug/L	1	1	5.1	5.1	92	84	75-125	2	20		
Cadmium	mg/L	1.2 ug/L	0.1	0.1	0.094	0.090	92	89	75-125	4	20		
Chromium	mg/L	ND	0.1	0.1	0.093	0.090	92	90	75-125	3	20		
Cobalt	mg/L	12.5 ug/L	0.1	0.1	0.10	0.10	90	88	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.084	0.083	84	83	75-125	1	20		
Lithium	mg/L	5.9J ug/L	0.1	0.1	0.096	0.094	90	89	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.093	96	93	75-125	4	20		
Selenium	mg/L	6.9 ug/L	0.1	0.1	0.10	0.093	93	86	75-125	7	20		
Thallium	mg/L	0.18J ug/L	0.1	0.1	0.083	0.082	83	82	75-125	1	20		

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QUALITY CONTROL DATA

Project: B-62 III & IV
 Pace Project No.: 92531031

QC Batch: 609136 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526988002

METHOD BLANK: 3208288 Matrix: Water
 Associated Lab Samples: 92526988002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/25/21 13:28	

LABORATORY CONTROL SAMPLE: 3208289

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3208290 3208291

Parameter	Units	3208290		3208291		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92528826006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0023	102	92	75-125	10	20

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QUALITY CONTROL DATA

Project: B-62 III & IV
 Pace Project No.: 92531031

QC Batch: 607316 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526988002

METHOD BLANK: 3199480 Matrix: Water
 Associated Lab Samples: 92526988002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/17/21 17:40	

LABORATORY CONTROL SAMPLE: 3199481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3199482

Parameter	Units	92527256010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	279	278	0	10	

SAMPLE DUPLICATE: 3199483

Parameter	Units	92526996006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	255	258	1	10	

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QUALITY CONTROL DATA

Project: B-62 III & IV

Pace Project No.: 92531031

QC Batch: 607751 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: 92526988002

METHOD BLANK: 3201757 Matrix: Water

Associated Lab Samples: 92526988002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/19/21 17:15	
Fluoride	mg/L	ND	0.10	0.050	03/19/21 17:15	
Sulfate	mg/L	ND	1.0	0.50	03/19/21 17:15	

LABORATORY CONTROL SAMPLE: 3201758

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	2.3	91	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3201759 3201760

Parameter	Units	92528475003		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							% Rec	% Rec
Chloride	mg/L	2510	50	50	50	2520	2520	27	27	90-110	0	10	M6
Fluoride	mg/L	4.6	2.5	2.5	2.5	12.1	11.9	302	294	90-110	2	10	M6
Sulfate	mg/L	1530	50	50	50	1510	1480	-49	-112	90-110	2	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3201761 3201762

Parameter	Units	92527256007		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							% Rec	% Rec
Chloride	mg/L	5.9	50	50	50	58.9	57.5	106	103	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.3	2.3	91	90	90-110	1	10	
Sulfate	mg/L	50.4	50	50	50	102	101	103	101	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: B-62 III & IV

Pace Project No.: 92531031

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B-62 III & IV

Pace Project No.: 92531031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526988002	B-62				
92526988002	B-62	EPA 3010A	607584	EPA 6010D	607676
92526988002	B-62	EPA 3005A	608528	EPA 6020B	608679
92526988002	B-62	EPA 7470A	609136	EPA 7470A	609168
92526988002	B-62	SM 2450C-2011	607316		
92526988002	B-62	EPA 300.0 Rev 2.1 1993	607751		

REPORT OF LABORATORY ANALYSIS

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Additional testing samples:

Airborne Bulk Grabbed Surface wipe Bulk Mechanical Airline Representative

Client Name: GA Power **Project #:** _____
Country: USA **Lead by:** JTS JMS JPS
 Govt. MHA **State:** _____ **County:** _____

Verdicted Project? Yes No **Lead by:** JTS JMS JPS

Contract type & Issuing Certificate #: Phase

Testing Method: Developer On-site Other Other

Applicable Standard (ASTM):
 Yes No N/A

Inspector: John D. [Signature] **Inspector License #:** 2130

Contract type: 21 **Completion Factor:** 2.0

Testing should be done during:
 Pre-construction Construction Occupancy

Contract type: 21 **Completion Factor:** 2.0

ASBESTOS: Yes No N/A (sample)

Other testing methods: Yes No N/A

Item	Yes	No	N/A	Notes
1. Asbestos sampling required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Sampling method: Airborne?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Sampling method: Bulk?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Sampling method: Grabbed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Sampling method: Surface wipe?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Sampling method: Mechanical?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Sampling method: Airline?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
14. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
15. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
16. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
17. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
18. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
19. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
20. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
21. Sampling method: Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Contract type: 21 **Completion Factor:** 2.0

Contract type: 21 **Completion Factor:** 2.0

Project Manager (PM) name: _____ **Date:** _____

Project Manager (PM) name: _____ **Date:** _____

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

Excludes M07, Bottom T02, and M06
 ** Bottom half of box is for number of bottles

Project #

1 of 1

Sample ID	Date Collected	Time of Day	Location	Container	Preservation Method	pH		Dechlorination	Comments
						Top Half	Bottom Half		
M07									
T02									
M06									
M08									
M09									
M10									
M11									
M12									
M13									
M14									
M15									
M16									
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pH Adjustment Log for Preserved Samples

Sample ID	Date	Time	Initial pH	Final pH	Volume of Adjuster (L)	Notes

Please refer to the 'SOP for Sampling and Analysis of Preserved Samples' for a copy of this form. For additional information, contact the Sampling and Analysis Section, California State Water Resources Center, 1011 Lakeview Avenue, Berkeley, CA 94702-1700.

2

CHAMBER OF COMMERCE / Analytical Request (Department)
 The User must select a valid position for the chemical analysis. The instrument will analyze.

Section 1: Client Information
 Section 2: Analytical Request Information
 Section 3: Sample Information
 Section 4: Laboratory Information
 Section 5: Instrumentation
 Section 6: Results
 Section 7: Comments
 Section 8: Signature
 Section 9: Date
 Section 10: Time

Area	Sample ID	Sample Name	Sample Description	Sample Quantity	Sample Location	Sample Date	Sample Time	Sample Status	Sample Notes	Sample Remarks
1	101	101	101	101	101	101	101	101	101	101
2										
3										
4										
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May 13, 2021

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

RE: Project: B-62 RAD
Pace Project No.: 92531033

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 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: 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: B-62 RAD
Pace Project No.: 92531033

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: B-62 RAD
Pace Project No.: 92531033

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526990002	B-62	Water	03/12/21 14:27	03/12/21 17:23

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SAMPLE ANALYTE COUNT

Project: B-62 RAD

Pace Project No.: 92531033

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526990002	B-62	EPA 9315	CLA	1	PASI-PA
		EPA 9320	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: B-62 RAD

Pace Project No.: 92531033

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-62 Lab ID: 92526990002 Collected: 03/12/21 14:27 Received: 03/12/21 17:23 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.815 ± 0.336 (0.437) C:78% T:NA	pCi/L	03/29/21 07:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.369 ± 0.467 (0.995) C:68% T:82%	pCi/L	04/07/21 12:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.18 ± 0.803 (1.43)	pCi/L	04/08/21 10:35	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: B-62 RAD

Pace Project No.: 92531033

QC Batch: 440194

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92526990002

METHOD BLANK: 2125114

Matrix: Water

Associated Lab Samples: 92526990002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.922 ± 0.466 (0.823) C:75% T:77%	pCi/L	04/07/21 12:38	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: B-62 RAD

Pace Project No.: 92531033

QC Batch: 439779

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92526990002

METHOD BLANK: 2123480

Matrix: Water

Associated Lab Samples: 92526990002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00660 ± 0.163 (0.432) C:92% T:NA	pCi/L	03/29/21 08:25	

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: B-62 RAD

Pace Project No.: 92531033

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B-62 RAD
Pace Project No.: 92531033

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526990002	B-62	EPA 9315	439779		
92526990002	B-62	EPA 9320	440194		
92526990002	B-62	Total Radium Calculation	442421		

REPORT OF LABORATORY ANALYSIS

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Lab/Company providing samples:

Asbestos Lead Gravel/soil Hurricane water Pallets Mechanicals Air Handler Kennel/office

Client Name: GA Power **Project #:** _____
Country: USA Canada Mexico Other _____
 Govt. work New build Renovation Other _____
Verdict/Def. Required? Yes No Lead based Yes No

Holding Method: Developer/owner Architect/owner Other Other _____
Demographic: Home Commercial Industrial Other _____
Occupational Exposure (if any): Yes No N/A

Letter Type: 21 **Completion Factor:** 2.0
Order Type: 21 **High Voltage:** 0.0
Order Type: 21 **High Voltage:** 0.0
Order Type: 21 **High Voltage:** 0.0

Do not check any of the following boxes unless you are sure you have the appropriate equipment, training, and experience to perform the work.

Item	Yes	No	Other	Notes
1. Conducted air monitoring?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
19. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
21. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
22. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
23. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
24. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
25. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
26. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
27. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
29. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
30. Used appropriate PPE (e.g., Time?)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments/Remarks: _____

Other notes/requirements: _____

Project contact: _____ **Company:** _____

Project Manager (PMP) name: _____ **Date:** _____
Project Manager (PMP) name: _____ **Date:** _____



Document Name:
Sample Collection Case Report (SEUR)
 Date: **2025-01-02**
F404105-001 Rev 07

Document Number: Version 28, 2020
Page 2 of 2
 Project: **10651**
 Site: **Central Valley Station**

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

Project #

10651

Exceeds MCL Bottom TOL: **0.0404** over DWY/Bohls **0.0166** (mg)
 **Bottom half of box is for number of bottles.

DATE	TIME	PARAMETER	VALUE	UNIT	ACCEPTANCE RANGE	STATUS
01/02/2025	14:00	pH	7.2		6.5 - 8.5	✓
01/02/2025	14:00	Total Dissolved Solids	100	mg/L	≤ 500	✓
01/02/2025	14:00	Temperature	15	°C	5 - 20	✓
01/02/2025	14:00	Dissolved Oxygen	12	mg/L	≥ 10	✓
01/02/2025	14:00	Electrical Conductivity	150	µS/cm	≤ 500	✓
01/02/2025	14:00	Total Hardness	150	mg/L	≤ 500	✓
01/02/2025	14:00	Calcium Hardness	100	mg/L	≤ 500	✓
01/02/2025	14:00	Magnesium Hardness	50	mg/L	≤ 500	✓
01/02/2025	14:00	Total Suspended Solids	5	mg/L	≤ 50	✓
01/02/2025	14:00	Total Solids	15	mg/L	≤ 50	✓
01/02/2025	14:00	Total Dissolved Solids	100	mg/L	≤ 500	✓
01/02/2025	14:00	Chloride	10	mg/L	≤ 50	✓
01/02/2025	14:00	Sulfate	10	mg/L	≤ 50	✓
01/02/2025	14:00	Ammonia Nitrogen	0.1	mg/L	≤ 0.5	✓
01/02/2025	14:00	Nitrite Nitrogen	0.05	mg/L	≤ 0.1	✓
01/02/2025	14:00	Nitrate Nitrogen	1	mg/L	≤ 5	✓
01/02/2025	14:00	Total Nitrogen	0.2	mg/L	≤ 0.5	✓
01/02/2025	14:00	Total Phosphorus	0.05	mg/L	≤ 0.1	✓
01/02/2025	14:00	Orthophosphate	0.02	mg/L	≤ 0.05	✓
01/02/2025	14:00	Total Chloride	10	mg/L	≤ 50	✓
01/02/2025	14:00	Total Sulfate	10	mg/L	≤ 50	✓
01/02/2025	14:00	Total Ammonia	0.1	mg/L	≤ 0.5	✓
01/02/2025	14:00	Total Nitrite	0.05	mg/L	≤ 0.1	✓
01/02/2025	14:00	Total Nitrate	1	mg/L	≤ 5	✓
01/02/2025	14:00	Total Phosphate	0.05	mg/L	≤ 0.1	✓
01/02/2025	14:00	Total Calcium	100	mg/L	≤ 500	✓
01/02/2025	14:00	Total Magnesium	50	mg/L	≤ 500	✓
01/02/2025	14:00	Total Hardness	150	mg/L	≤ 500	✓
01/02/2025	14:00	Iron	0.1	mg/L	≤ 0.3	✓
01/02/2025	14:00	Copper	0.01	mg/L	≤ 0.05	✓
01/02/2025	14:00	Zinc	0.05	mg/L	≤ 0.1	✓
01/02/2025	14:00	Lead	0.01	mg/L	≤ 0.05	✓
01/02/2025	14:00	Chromium	0.01	mg/L	≤ 0.05	✓
01/02/2025	14:00	Manganese	0.05	mg/L	≤ 0.1	✓
01/02/2025	14:00	Fluoride	1	mg/L	≤ 5	✓
01/02/2025	14:00	Barium	0.1	mg/L	≤ 0.5	✓
01/02/2025	14:00	Cadmium	0.001	mg/L	≤ 0.01	✓
01/02/2025	14:00	Cobalt	0.01	mg/L	≤ 0.05	✓
01/02/2025	14:00	Copper	0.01	mg/L	≤ 0.05	✓
01/02/2025	14:00	Lead	0.01	mg/L	≤ 0.05	✓
01/02/2025	14:00	Nickel	0.01	mg/L	≤ 0.05	✓
01/02/2025	14:00	Silver	0.001	mg/L	≤ 0.01	✓
01/02/2025	14:00	Vanadium	0.01	mg/L	≤ 0.05	✓
01/02/2025	14:00	Zinc	0.05	mg/L	≤ 0.1	✓

pH Adjustment Log for Preserved Samples

Sample ID	Initial pH	Adjustment	Date/Preservation Method	Final pH	Amount of Adjuster (vol)	Lot #

Please refer back to the method for pH adjustment and preservation (see sample collection manual) a copy of this form is to be kept in the field (to be used by the field crew) and a copy is to be kept in the laboratory.

Quality Control Sample Performance Assessment

Sample No: 10/18/2000

Sample No	Sample Name	Sample Date	Sample Time	Sample Location	Sample Status
10/18/2000	10/18/2000	10/18/2000	10/18/2000	10/18/2000	10/18/2000

Sample No	Sample Name	Sample Date	Sample Time	Sample Location	Sample Status
10/18/2000	10/18/2000	10/18/2000	10/18/2000	10/18/2000	10/18/2000

10/18/2000

10/18/2000

10/18/2000

10/18/2000

10/18/2000

10/18/2000

10/18/2000

Quality Control Sample Performance Assessment

Assessment of the Laboratory's Quality Control Sample Performance

Date: 11/15/11
 Analyst: JRM
 Sample ID: 42233
 Matrix: W



Sample Name	Method	Matrix
Water	10000	Water
Soil	10000	Soil
Air	10000	Air
Sludge	10000	Sludge
Other	10000	Other

Sample Name	Method	Matrix
Water	10000	Water
Soil	10000	Soil
Air	10000	Air
Sludge	10000	Sludge
Other	10000	Other

Sample Name	Method	Matrix
Water	10000	Water
Soil	10000	Soil
Air	10000	Air
Sludge	10000	Sludge
Other	10000	Other

Sample Name	Method	Matrix
Water	10000	Water
Soil	10000	Soil
Air	10000	Air
Sludge	10000	Sludge
Other	10000	Other

Assessment of the Laboratory's Quality Control Sample Performance

Date: 11/15/11
 Analyst: JRM
 Sample ID: 42233
 Matrix: W



May 13, 2021

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

RE: Project: AP-234 B Wells Ions
Pace Project No.: 92524836

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 04, 2021 and March 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: 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: AP-234 B Wells Ions

Pace Project No.: 92524836

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524836015	B-56	Water	03/03/21 15:15	03/04/21 09:00
92524836026	B-88	Water	03/05/21 11:25	03/05/21 16:16
92524836027	B-101D	Water	03/05/21 10:25	03/05/21 16:16
92524836028	B-111D	Water	03/05/21 09:55	03/05/21 16:16
92524836029	B-77	Water	03/04/21 12:22	03/05/21 16:16
92524836030	B-83	Water	03/04/21 14:57	03/05/21 16:16
92524836031	B-102D	Water	03/04/21 15:07	03/05/21 16:16
92524836032	B-104D	Water	03/04/21 14:40	03/05/21 16:16
92524836033	B-106D	Water	03/04/21 10:07	03/05/21 16:16
92524836034	B-107D	Water	03/04/21 11:45	03/05/21 16:16
92524836035	B-108D	Water	03/04/21 10:08	03/05/21 16:16
92524836036	DUP-2	Water	03/04/21 00:00	03/05/21 16:16
92524836037	FB-2	Water	03/04/21 10:40	03/05/21 16:16
92524836038	EB-2	Water	03/04/21 13:20	03/05/21 16:16
92524836039	B-109D	Water	03/08/21 12:58	03/09/21 09:30
92526978001	B-93	Water	03/09/21 14:52	03/11/21 08:50

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SAMPLE ANALYTE COUNT

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524836015	B-56	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836026	B-88	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836027	B-101D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836028	B-111D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836029	B-77	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836030	B-83	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836031	B-102D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836032	B-104D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836033	B-106D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836034	B-107D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836035	B-108D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836036	DUP-2	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836037	FB-2	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836038	EB-2	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92524836039	B-109D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92526978001	B-93	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	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: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-56 **Lab ID: 92524836015** Collected: 03/03/21 15:15 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	4.71	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.0	mg/L	0.20	0.056	1	03/05/21 10:52	03/09/21 13:34	7440-09-7	
Sodium	19.4	mg/L	1.0	0.26	1	03/05/21 10:52	03/09/21 13:34	7440-23-5	
Magnesium	34.2	mg/L	0.050	0.0076	1	03/05/21 10:52	03/09/21 13:34	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/16/21 00:34		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/16/21 00:34		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		03/16/21 00:34		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-88 **Lab ID: 92524836026** Collected: 03/05/21 11:25 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.21	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	9.6	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 18:04	7440-09-7	
Sodium	25.0	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 18:04	7440-23-5	
Magnesium	40.4	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 05:31	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 22:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 22:56		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/17/21 22:56		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-101D **Lab ID: 92524836027** Collected: 03/05/21 10:25 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	6.52	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.8	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 18:09	7440-09-7	
Sodium	20.8	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 18:09	7440-23-5	
Magnesium	25.9	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 05:36	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	50.4	mg/L	5.0	5.0	1		03/17/21 23:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 23:01		
Alkalinity, Total as CaCO3	50.4	mg/L	5.0	5.0	1		03/17/21 23:01		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-111D **Lab ID: 92524836028** Collected: 03/05/21 09:55 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	6.69	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	19.6	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 18:14	7440-09-7	
Sodium	54.5	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 18:14	7440-23-5	
Magnesium	11.5	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 05:41	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	146	mg/L	5.0	5.0	1		03/17/21 23:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 23:07		
Alkalinity, Total as CaCO3	146	mg/L	5.0	5.0	1		03/17/21 23:07		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-77 **Lab ID: 92524836029** Collected: 03/04/21 12:22 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	6.33	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Magnesium	4.3	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 06:00	7439-95-4	
Potassium	1.3	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 18:18	7440-09-7	
Sodium	7.5	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 18:18	7440-23-5	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	104	mg/L	5.0	5.0	1		03/17/21 21:31		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 21:31		
Alkalinity, Total as CaCO3	104	mg/L	5.0	5.0	1		03/17/21 21:31		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-83 **Lab ID: 92524836030** Collected: 03/04/21 14:57 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.60	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Magnesium	10.2	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 06:05	7439-95-4	
Potassium	2.4	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 18:23	7440-09-7	
Sodium	13.1	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 18:23	7440-23-5	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	38.2	mg/L	5.0	5.0	1		03/17/21 21:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 21:41		
Alkalinity, Total as CaCO3	38.2	mg/L	5.0	5.0	1		03/17/21 21:41		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-102D **Lab ID: 92524836031** Collected: 03/04/21 15:07 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.43	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.6	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 18:38	7440-09-7	
Sodium	18.5	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 18:38	7440-23-5	
Magnesium	16.3	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 06:09	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	9.4	mg/L	5.0	5.0	1		03/17/21 21:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 21:48		
Alkalinity, Total as CaCO3	9.4	mg/L	5.0	5.0	1		03/17/21 21:48		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-104D **Lab ID: 92524836032** Collected: 03/04/21 14:40 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	6.27	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Magnesium	26.3	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 06:14	7439-95-4	
Potassium	8.5	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 18:43	7440-09-7	
Sodium	18.8	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 18:43	7440-23-5	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	72.2	mg/L	5.0	5.0	1		03/17/21 21:53		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/17/21 21:53		
Alkalinity, Total as CaCO ₃	72.2	mg/L	5.0	5.0	1		03/17/21 21:53		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-106D **Lab ID: 92524836033** Collected: 03/04/21 10:07 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.85	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.2	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 18:47	7440-09-7	
Sodium	16.5	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 18:47	7440-23-5	
Magnesium	18.5	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 06:19	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	24.0	mg/L	5.0	5.0	1		03/17/21 22:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 22:01		
Alkalinity, Total as CaCO3	24.0	mg/L	5.0	5.0	1		03/17/21 22:01		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-107D **Lab ID: 92524836034** Collected: 03/04/21 11:45 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.97	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Magnesium	29.6	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 06:24	7439-95-4	
Potassium	6.5	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 18:52	7440-09-7	
Sodium	19.2	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 18:52	7440-23-5	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	31.5	mg/L	5.0	5.0	1		03/17/21 23:17		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 23:17		
Alkalinity, Total as CaCO3	31.5	mg/L	5.0	5.0	1		03/17/21 23:17		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-108D **Lab ID: 92524836035** Collected: 03/04/21 10:08 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	5.88	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Magnesium	34.6	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 06:29	7439-95-4	
Potassium	5.7	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 18:57	7440-09-7	
Sodium	18.3	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 18:57	7440-23-5	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	30.4	mg/L	5.0	5.0	1		03/17/21 23:23		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/17/21 23:23		
Alkalinity, Total as CaCO ₃	30.4	mg/L	5.0	5.0	1		03/17/21 23:23		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: DUP-2 **Lab ID: 92524836036** Collected: 03/04/21 00:00 Received: 03/05/21 16:16 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									
Magnesium	15.5	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 06:34	7439-95-4	
Potassium	6.8	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 19:02	7440-09-7	
Sodium	18.8	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 19:02	7440-23-5	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	10	mg/L	5.0	5.0	1		03/17/21 23:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 23:29		
Alkalinity, Total as CaCO3	10	mg/L	5.0	5.0	1		03/17/21 23:29		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: FB-2 **Lab ID: 92524836037** Collected: 03/04/21 10:40 Received: 03/05/21 16:16 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									
Potassium	ND	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 06:38	7440-09-7	
Sodium	ND	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 06:38	7440-23-5	
Magnesium	ND	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 06:38	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 23:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 23:34		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/17/21 23:34		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: EB-2 **Lab ID: 92524836038** Collected: 03/04/21 13:20 Received: 03/05/21 16:16 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									
Potassium	ND	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 06:43	7440-09-7	
Sodium	ND	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 06:43	7440-23-5	
Magnesium	ND	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 06:43	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 23:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/17/21 23:38		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/17/21 23:38		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-109D **Lab ID: 92524836039** Collected: 03/08/21 12:58 Received: 03/09/21 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:49		
pH	6.42	Std. Units			1		03/22/21 11:49		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Magnesium	11.7	mg/L	0.050	0.0076	1	03/17/21 09:57	03/19/21 07:02	7439-95-4	
Potassium	8.2	mg/L	0.20	0.056	1	03/17/21 09:57	03/19/21 19:06	7440-09-7	
Sodium	22.0	mg/L	1.0	0.26	1	03/17/21 09:57	03/19/21 19:06	7440-23-5	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	99.2	mg/L	5.0	5.0	1		03/18/21 15:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/18/21 15:42		
Alkalinity, Total as CaCO3	99.2	mg/L	5.0	5.0	1		03/18/21 15:42		

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ANALYTICAL RESULTS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

Sample: B-93		Lab ID: 92526978001		Collected: 03/09/21 14:52	Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:54		
pH	4.73	Std. Units			1		03/22/21 11:54		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.5	mg/L	0.20	0.056	1	03/18/21 12:20	03/22/21 15:12	7440-09-7	
Sodium	24.1	mg/L	1.0	0.26	1	03/18/21 12:20	03/20/21 16:50	7440-23-5	
Magnesium	22.9	mg/L	0.050	0.0076	1	03/18/21 12:20	03/20/21 16:50	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/22/21 22:58		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/22/21 22:58		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		03/22/21 22:58		

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QUALITY CONTROL DATA

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

QC Batch: 604554

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524836015

METHOD BLANK: 3184787

Matrix: Water

Associated Lab Samples: 92524836015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	ND	0.050	0.0076	03/09/21 12:31	
Potassium	mg/L	ND	0.20	0.056	03/09/21 12:31	
Sodium	mg/L	ND	1.0	0.26	03/09/21 12:31	

LABORATORY CONTROL SAMPLE: 3184788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184789 3184790

Parameter	Units	92524831009		3184789		3184790		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Magnesium	mg/L	15.4	1	1	16.1	15.9	63	47	75-125	1	20	M1	
Potassium	mg/L	4.5	1	1	5.5	5.5	98	98	75-125	0	20		
Sodium	mg/L	22.2	1	1	23.1	23.1	84	91	75-125	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

QC Batch:	607149	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92524836026, 92524836027, 92524836028, 92524836029, 92524836030, 92524836031, 92524836032, 92524836033, 92524836034, 92524836035, 92524836036, 92524836037, 92524836038, 92524836039		

METHOD BLANK:	3198600	Matrix:	Water
Associated Lab Samples:	92524836026, 92524836027, 92524836028, 92524836029, 92524836030, 92524836031, 92524836032, 92524836033, 92524836034, 92524836035, 92524836036, 92524836037, 92524836038, 92524836039		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	ND	0.050	0.0076	03/19/21 05:01	
Potassium	mg/L	ND	0.20	0.056	03/19/21 05:01	
Sodium	mg/L	ND	1.0	0.26	03/19/21 05:01	

LABORATORY CONTROL SAMPLE: 3198601						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198602												3198603	
Parameter	Units	92524831024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Magnesium	mg/L	7.3	1	1	8.2	8.2	93	94	75-125	0	20		
Potassium	mg/L	7.7	1	1	8.8	8.7	107	103	75-125	0	20		
Sodium	mg/L	11.6	1	1	12.6	12.6	95	98	75-125	0	20		

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QUALITY CONTROL DATA

Project: AP-234 B Wells Ions
 Pace Project No.: 92524836

QC Batch: 607584 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526978001

METHOD BLANK: 3200680 Matrix: Water
 Associated Lab Samples: 92526978001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	0.0082J	0.050	0.0076	03/20/21 00:30	
Potassium	mg/L	ND	0.20	0.056	03/20/21 00:30	
Sodium	mg/L	ND	1.0	0.26	03/20/21 00:30	

LABORATORY CONTROL SAMPLE: 3200681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200682 3200683

Parameter	Units	92524632021		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result								% Rec	% Rec
Magnesium	mg/L	18.4	1	1	20.6	20.4	221	194	75-125	1	20	M1		
Potassium	mg/L	0.75	1	1	1.9	2.0	115	121	75-125	3	20			
Sodium	mg/L	2.1	1	1	3.3	3.3	124	120	75-125	1	20			

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QUALITY CONTROL DATA

Project: AP-234 B Wells Ions
 Pace Project No.: 92524836

QC Batch: 606598 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92524836015

METHOD BLANK: 3195960 Matrix: Water
 Associated Lab Samples: 92524836015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/15/21 21:17	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/15/21 21:17	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/15/21 21:17	

LABORATORY CONTROL SAMPLE: 3195961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	47.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195962 3195963

Parameter	Units	92526805001		3195963		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	41.4	50	50	91.7	92.8	101	103	80-120	1	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195964 3195965

Parameter	Units	92526826001		3195965		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	195	50	50	249	246	109	102	80-120	1	25

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QUALITY CONTROL DATA

Project: AP-234 B Wells Ions
 Pace Project No.: 92524836

QC Batch: 607154 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92524836029, 92524836030, 92524836031, 92524836032, 92524836033

METHOD BLANK: 3198620 Matrix: Water
 Associated Lab Samples: 92524836029, 92524836030, 92524836031, 92524836032, 92524836033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/17/21 17:52	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/17/21 17:52	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/17/21 17:52	

LABORATORY CONTROL SAMPLE: 3198621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.0	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198624 3198625

Parameter	Units	92525669006		3198625		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Alkalinity, Total as CaCO3	mg/L	57.3	50	50	110	109	106	104	80-120	1	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200194 3200195

Parameter	Units	92525383011		3200195		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Alkalinity, Total as CaCO3	mg/L	28.9	50	50	80.0	81.0	102	104	80-120	1	25		

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QUALITY CONTROL DATA

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

QC Batch: 607155 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92524836026, 92524836027, 92524836028, 92524836034, 92524836035, 92524836036, 92524836037, 92524836038

METHOD BLANK: 3198626 Matrix: Water
 Associated Lab Samples: 92524836026, 92524836027, 92524836028, 92524836034, 92524836035, 92524836036, 92524836037, 92524836038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/17/21 22:07	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/17/21 22:07	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/17/21 22:07	

LABORATORY CONTROL SAMPLE: 3198627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.5	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198628 3198629

Parameter	Units	3198628		3198629		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526041001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Alkalinity, Total as CaCO3	mg/L	82.9	50	50	131	131	96	97	80-120	0	25		

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QUALITY CONTROL DATA

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

QC Batch: 607521

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92524836039

METHOD BLANK: 3200444

Matrix: Water

Associated Lab Samples: 92524836039

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/18/21 13:02	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/18/21 13:02	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/18/21 13:02	

LABORATORY CONTROL SAMPLE: 3200445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.8	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200446 3200447

Parameter	Units	92526458001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Alkalinity, Total as CaCO3	mg/L	69.7	50	50	121	120	102	101	80-120	1	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200448 3200449

Parameter	Units	92526968011		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Alkalinity, Total as CaCO3	mg/L	186	50	50	233	240	93	108	80-120	3	25		

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QUALITY CONTROL DATA

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

QC Batch: 607906

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526978001

METHOD BLANK: 3202304

Matrix: Water

Associated Lab Samples: 92526978001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/22/21 18:29	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/22/21 18:29	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/22/21 18:29	

LABORATORY CONTROL SAMPLE: 3202305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.4	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3202306 3202307

Parameter	Units	92527520006		3202307		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Alkalinity, Total as CaCO3	mg/L	15.7	50	50	67.2	68.4	103	105	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3205309 3205310

Parameter	Units	92526978001		3205310		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Alkalinity, Total as CaCO3	mg/L	ND	50	50	54.5	55.0	107	108	80-120	1	25	

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QUALIFIERS

Project: AP-234 B Wells Ions

Pace Project No.: 92524836

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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: AP-234 B Wells Ions
 Pace Project No.: 92524836

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524836015	B-56				
92524836026	B-88				
92524836027	B-101D				
92524836028	B-111D				
92524836029	B-77				
92524836030	B-83				
92524836031	B-102D				
92524836032	B-104D				
92524836033	B-106D				
92524836034	B-107D				
92524836035	B-108D				
92524836039	B-109D				
92526978001	B-93				
92524836015	B-56	EPA 3010A	604554	EPA 6010D	604641
92524836026	B-88	EPA 3010A	607149	EPA 6010D	607253
92524836027	B-101D	EPA 3010A	607149	EPA 6010D	607253
92524836028	B-111D	EPA 3010A	607149	EPA 6010D	607253
92524836029	B-77	EPA 3010A	607149	EPA 6010D	607253
92524836030	B-83	EPA 3010A	607149	EPA 6010D	607253
92524836031	B-102D	EPA 3010A	607149	EPA 6010D	607253
92524836032	B-104D	EPA 3010A	607149	EPA 6010D	607253
92524836033	B-106D	EPA 3010A	607149	EPA 6010D	607253
92524836034	B-107D	EPA 3010A	607149	EPA 6010D	607253
92524836035	B-108D	EPA 3010A	607149	EPA 6010D	607253
92524836036	DUP-2	EPA 3010A	607149	EPA 6010D	607253
92524836037	FB-2	EPA 3010A	607149	EPA 6010D	607253
92524836038	EB-2	EPA 3010A	607149	EPA 6010D	607253
92524836039	B-109D	EPA 3010A	607149	EPA 6010D	607253
92526978001	B-93	EPA 3010A	607584	EPA 6010D	607676
92524836015	B-56	SM 2320B-2011	606598		
92524836026	B-88	SM 2320B-2011	607155		
92524836027	B-101D	SM 2320B-2011	607155		
92524836028	B-111D	SM 2320B-2011	607155		
92524836029	B-77	SM 2320B-2011	607154		
92524836030	B-83	SM 2320B-2011	607154		
92524836031	B-102D	SM 2320B-2011	607154		
92524836032	B-104D	SM 2320B-2011	607154		
92524836033	B-106D	SM 2320B-2011	607154		
92524836034	B-107D	SM 2320B-2011	607155		
92524836035	B-108D	SM 2320B-2011	607155		
92524836036	DUP-2	SM 2320B-2011	607155		
92524836037	FB-2	SM 2320B-2011	607155		
92524836038	EB-2	SM 2320B-2011	607155		
92524836039	B-109D	SM 2320B-2011	607521		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AP-234 B Wells Ions
Pace Project No.: 92524836

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526978001	B-93	SM 2320B-2011	607906		

REPORT OF LABORATORY ANALYSIS

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

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Project #:

WO#: 92524836

Carrier:

Commercial

Fed Ex

UPS

USPS

Client

Pace

Other



92524836

Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Date/Initials Person Examining Contents: BC 3/2/21

Packing Material:

Bubble Wrap

Bubble Bags

None

Other

Biological Tissue Frozen?

Yes

No

N/A

Thermometer:

IR Gun ID:

233

Type of Ice:

Dry

Blue

None

Cooler Temp:

1.1

Correction Factor

Add/Subtract (°C)

30.4

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

1.5

USDA Regulated Soil (N/A, water sample)

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

Yes

No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)?

Yes

No

			Comments/Discrepancy
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pure 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>W T</u>		
Headspace in VOC Vials (>5-grams)?	<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:

Boyer

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a crucial document. All entered fields must be completed accurately.

Page: 1 of 1

Section A Requester Name: [Blank] Requester Title: [Blank] Requester Organization: [Blank] Requester Address: [Blank] Requester Phone: [Blank] Requester Email: [Blank]	Section B Requester Department: [Blank] Requester Position: [Blank] Requester Date: [Blank] Requester Time: [Blank]	Section C Requester Signature: [Blank] Requester Date: [Blank]
Section D Requester Name: [Blank] Requester Title: [Blank] Requester Organization: [Blank] Requester Address: [Blank] Requester Phone: [Blank] Requester Email: [Blank]	Section E Requester Department: [Blank] Requester Position: [Blank] Requester Date: [Blank] Requester Time: [Blank]	Section F Requester Signature: [Blank] Requester Date: [Blank]

ITEM #	SAMPLE ID	DATE	TIME	LOCATION	ANALYSIS TEST	ANALYSIS TEST		ANALYST	LABORATORY
						DATE	TIME		
1	010								
2									
3									
4									
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13									
14									
15									

42541526

per/analyst: 1/4/21 1:50
EVID 81/24
I EVID 2
per/analyst: 3/4/21 8:30
EVID 81/24



CHAIN-OF-CUSTODY / Analytical Request Document
 This Chain of Custody is a LEGAL DOCUMENT. All information herein must be reported accurately.

Section A
 Requester Chain Information

Requester Name: [Blank]
 Requester Title: [Blank]
 Requester Address: [Blank]
 Requester City: [Blank]
 Requester State: [Blank]
 Requester Zip: [Blank]
 Requester Phone: [Blank]

Section B
 Requested Property Information

Request No.: [Blank]
 Request Date: [Blank]
 Requester Name: [Blank]
 Requester Title: [Blank]
 Requester Address: [Blank]
 Requester City: [Blank]
 Requester State: [Blank]
 Requester Zip: [Blank]
 Requester Phone: [Blank]

Section C
 Requester Information

Requester Name: [Blank]
 Requester Title: [Blank]
 Requester Address: [Blank]
 Requester City: [Blank]
 Requester State: [Blank]
 Requester Zip: [Blank]
 Requester Phone: [Blank]

Page: 1 of 1

ITEM #	SAMPLE ID	DATE	TIME	ANALYST	LABORATORY	ANALYSIS	ANALYSIS TESTS					RESIDUAL CRIME (Y/N)
							Protein	Carbohydrate	Lipid	Nucleic Acid	Other	
1	8-01	10:00	10:00	J. Williams	12345	Protein	Carbohydrate	Lipid	Nucleic Acid	Other	Y	
2	8-02	10:05	10:05	J. Williams	12345	Protein	Carbohydrate	Lipid	Nucleic Acid	Other	Y	
3	8-11	10:10	10:10	J. Williams	12345	Protein	Carbohydrate	Lipid	Nucleic Acid	Other	Y	
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

Requester Name: [Blank]
 Requester Title: [Blank]
 Requester Address: [Blank]
 Requester City: [Blank]
 Requester State: [Blank]
 Requester Zip: [Blank]
 Requester Phone: [Blank]



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section 1: Requester Information
 Section 2: Requested Analytical Services
 Section 3: Sample Information
 Section 4: Chain of Custody

Section 5: Laboratory Information
 Section 6: Requester Agency
 Section 7: Date/Time

ITEM #	DESCRIPTION	QTY	UNIT	DATE	TIME	INITIALS	ANALYSIS TEST					REMARKS
							PHOSPHORUS	PHOSPHORUS	PHOSPHORUS	PHOSPHORUS	PHOSPHORUS	
1
2
3
4
5
6
7
8
9
10
11
12
13
14

Signature: *[Handwritten Signature]*
 Date: *[Handwritten Date]*
 Title: *[Handwritten Title]*

Page: 1 of 1



CHAIN-OF-CUSTODY / Analytical Request Document
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Section A
 Analytical Chain Information

Section B
 Analytical Project Information

Section C
 Sample Information

Page: 1 of 1

Project Name: [Blank]
 Client: [Blank]
 Project ID: [Blank]
 Requested By: [Blank]

Requester Name: [Blank]
 Requester Title: [Blank]
 Requester Email: [Blank]

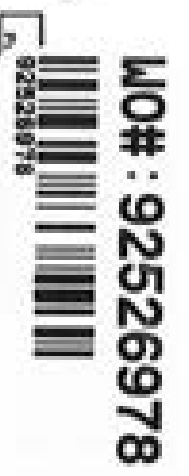
Sample ID	Description of Sample	Date Collected	Time Collected	Collector	Location	Container	Preservation	Analytical Tests					Remarks (Date)
								PH	Lead	Cadmium	Copper	Mercury	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

Signature: [Blank]



CHAIN-OF-CUSTODY / Analytical Request Document
 This Document is a UDDL Document. All items listed must be analyzed according to the relevant standard.

W0# : 92526978



92526978

Section 1: Analytical Request Information
 Section 2: Requester Information
 Section 3: Analytical Request Information
 Section 4: Requester Information

ITEM #	SAMPLE ID	QTY	UNIT	DATE	TIME	ANALYSIS TEST	ANALYSIS TEST			ANALYSE TEST	ANALYSE TEST	ANALYSE TEST	ANALYSE TEST	ANALYSE TEST	ANALYSE TEST
							PERCENT	PERCENT	PERCENT						
1	SAMPLE ID					PERCENT	PERCENT	PERCENT							
2															
3															
4															
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6															
7															
8															
9															
10															
11															
12															
13															
14															
15															

DATE ISSUED:

DATE RECEIVED:

DATE OF ANALYSIS:



April 05, 2021

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

RE: Project: AP-234 Assessment III & IV
Pace Project No.: 92530271

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 04, 2021 and March 11, 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,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
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: AP-234 Assessment III & IV

Pace Project No.: 92530271

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524831015	B-56	Water	03/03/21 15:15	03/04/21 09:00
92524831026	B-88	Water	03/05/21 11:25	03/05/21 16:16
92524831027	B-101D	Water	03/05/21 10:25	03/05/21 16:16
92524831028	B-111D	Water	03/05/21 09:55	03/05/21 16:16
92524831029	B-77	Water	03/04/21 12:22	03/05/21 16:16
92524831030	B-83	Water	03/04/21 14:57	03/05/21 16:16
92524831031	B-102D	Water	03/04/21 15:07	03/05/21 16:16
92524831032	B-104D	Water	03/04/21 14:40	03/05/21 16:16
92524831033	B-106D	Water	03/04/21 10:07	03/05/21 16:16
92524831034	B-107D	Water	03/04/21 11:45	03/05/21 16:16
92524831035	B-108D	Water	03/04/21 10:08	03/05/21 16:16
92524831039	B-109D	Water	03/08/21 12:58	03/09/21 09:30
92526988001	B-93	Water	03/09/21 14:52	03/11/21 08:50
92524831036	DUP-2	Water	03/04/21 00:00	03/05/21 16:16
92524831037	FB-2	Water	03/04/21 10:40	03/05/21 16:16
92524831038	EB-2	Water	03/04/21 13:20	03/05/21 16:16

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524831015	B-56	EPA 6010D	DRB	1
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524831026	B-88	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524831027	B-101D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524831028	B-111D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524831029	B-77	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524831030	B-83	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524831031	B-102D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524831032	B-104D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524831033	B-106D	EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92524831034	B-107D	SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92524831035	B-108D	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524831039	B-109D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
92526988001	B-93	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
92524831036	DUP-2	EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92524831037	FB-2	SM 2450C-2011	ALW	1
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		EPA 6020B	CW1	13
		EPA 6010D	DRB	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524831038	EB-2	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Sample: B-56 **Lab ID: 92524831015** Collected: 03/03/21 15:15 Received: 03/04/21 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	4.71	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	18.5	mg/L	1.0	0.070	1	03/05/21 10:52	03/09/21 13:34	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/05/21 13:31	03/08/21 22:04	7440-36-0	
Arsenic	0.0030J	mg/L	0.0050	0.00078	1	03/05/21 13:31	03/08/21 22:04	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	03/05/21 13:31	03/08/21 22:04	7440-39-3	
Beryllium	0.0011	mg/L	0.00050	0.000046	1	03/05/21 13:31	03/08/21 22:04	7440-41-7	
Boron	1.4	mg/L	0.040	0.0052	1	03/05/21 13:31	03/08/21 22:04	7440-42-8	
Cadmium	0.00026J	mg/L	0.00050	0.00012	1	03/05/21 13:31	03/08/21 22:04	7440-43-9	
Chromium	0.00059J	mg/L	0.0050	0.00055	1	03/05/21 13:31	03/08/21 22:04	7440-47-3	
Cobalt	0.050	mg/L	0.0050	0.00038	1	03/05/21 13:31	03/08/21 22:04	7440-48-4	
Lead	0.00010J	mg/L	0.0010	0.000036	1	03/05/21 13:31	03/08/21 22:04	7439-92-1	
Lithium	0.0051J	mg/L	0.030	0.00081	1	03/05/21 13:31	03/08/21 22:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/05/21 13:31	03/08/21 22:04	7439-98-7	
Selenium	0.013	mg/L	0.0050	0.0016	1	03/05/21 13:31	03/08/21 22:04	7782-49-2	
Thallium	0.00026J	mg/L	0.0010	0.00014	1	03/05/21 13:31	03/08/21 22:04	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 08:45	03/08/21 15:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	303	mg/L	10.0	10.0	1		03/05/21 15:35		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.3	mg/L	1.0	0.60	1		03/13/21 12:21	16887-00-6	
Fluoride	0.34	mg/L	0.10	0.050	1		03/13/21 12:21	16984-48-8	M1
Sulfate	225	mg/L	5.0	2.5	5		03/14/21 06:10	14808-79-8	M6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: B-88		Lab ID: 92524831026		Collected: 03/05/21 11:25		Received: 03/05/21 16:16		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.21	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	128	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 05:31	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 15:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 15:28	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 15:28	7440-39-3	
Beryllium	0.0050	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 15:28	7440-41-7	
Boron	3.5	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 15:28	7440-42-8	
Cadmium	0.0065	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 15:28	7440-43-9	
Chromium	0.0017J	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 15:28	7440-47-3	
Cobalt	0.022	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 15:28	7440-48-4	
Lead	0.012	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 15:28	7439-92-1	
Lithium	0.029J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 15:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 15:28	7439-98-7	
Selenium	0.0033J	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 15:28	7782-49-2	
Thallium	0.00020J	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 15:28	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00010J	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 10:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	798	mg/L	20.0	20.0	1		03/10/21 17:21		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.8	mg/L	1.0	0.60	1		03/15/21 13:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 13:33	16984-48-8	
Sulfate	497	mg/L	11.0	5.5	11		03/15/21 21:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: B-101D		Lab ID: 92524831027		Collected: 03/05/21 10:25		Received: 03/05/21 16:16		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	6.52	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	68.9	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 05:36	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0019J	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 15:51	7440-36-0	B
Arsenic	0.0017J	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 15:51	7440-38-2	
Barium	0.064	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 15:51	7440-39-3	
Beryllium	0.000047J	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 15:51	7440-41-7	
Boron	1.9	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 15:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 15:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 15:51	7440-47-3	
Cobalt	0.0023J	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 15:51	7440-48-4	
Lead	0.000065J	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 15:51	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 15:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 15:51	7439-98-7	
Selenium	0.0031J	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 15:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 15:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00014J	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 10:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	462	mg/L	10.0	10.0	1		03/10/21 17:21		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.0	mg/L	1.0	0.60	1		03/15/21 13:48	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		03/15/21 13:48	16984-48-8	
Sulfate	236	mg/L	5.0	2.5	5		03/15/21 21:26	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Sample: B-111D **Lab ID: 92524831028** Collected: 03/05/21 09:55 Received: 03/05/21 16:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	6.69	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	110	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 05:41	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00060J	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 15:57	7440-36-0	B
Arsenic	0.0023J	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 15:57	7440-38-2	
Barium	0.038	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 15:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 15:57	7440-41-7	
Boron	0.44	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 15:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 15:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 15:57	7440-47-3	
Cobalt	0.00052J	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 15:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 15:57	7439-92-1	
Lithium	0.028J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 15:57	7439-93-2	
Molybdenum	0.0067J	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 15:57	7439-98-7	
Selenium	0.0022J	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 15:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 15:57	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 10:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	634	mg/L	20.0	20.0	1		03/10/21 17:21		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	39.2	mg/L	1.0	0.60	1		03/14/21 22:14	16887-00-6	
Fluoride	0.51	mg/L	0.10	0.050	1		03/14/21 22:14	16984-48-8	
Sulfate	270	mg/L	6.0	3.0	6		03/15/21 05:12	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: B-77		Lab ID: 92524831029		Collected: 03/04/21 12:22		Received: 03/05/21 16:16		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	6.33	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	14.8	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 06:00	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00063J	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 16:03	7440-36-0	B
Arsenic	0.0020J	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 16:03	7440-38-2	
Barium	0.11	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 16:03	7440-39-3	
Beryllium	0.000057J	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 16:03	7440-41-7	
Boron	0.35	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 16:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 16:03	7440-43-9	
Chromium	0.00098J	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 16:03	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 16:03	7440-48-4	
Lead	0.00029J	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 16:03	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 16:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 16:03	7439-98-7	
Selenium	0.0017J	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 16:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 16:03	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	0.000078	1	03/16/21 07:30	03/16/21 12:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	128	mg/L	10.0	10.0	1		03/09/21 16:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.9	mg/L	1.0	0.60	1		03/14/21 22:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 22:57	16984-48-8	
Sulfate	4.9	mg/L	1.0	0.50	1		03/14/21 22:57	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: B-83		Lab ID: 92524831030		Collected: 03/04/21 14:57		Received: 03/05/21 16:16		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.60	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	39.1	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 06:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 16:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 16:20	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 16:20	7440-39-3	
Beryllium	0.00037J	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 16:20	7440-41-7	
Boron	0.33	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 16:20	7440-42-8	
Cadmium	0.00032J	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 16:20	7440-43-9	
Chromium	0.0049J	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 16:20	7440-47-3	
Cobalt	0.0099	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 16:20	7440-48-4	
Lead	0.00017J	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 16:20	7439-92-1	
Lithium	0.0024J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 16:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 16:20	7439-98-7	
Selenium	0.024	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 16:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 16:20	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	03/16/21 07:30	03/16/21 12:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	234	mg/L	10.0	10.0	1		03/09/21 16:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.2	mg/L	1.0	0.60	1		03/14/21 23:11	16887-00-6	
Fluoride	0.071J	mg/L	0.10	0.050	1		03/14/21 23:11	16984-48-8	
Sulfate	113	mg/L	2.0	1.0	2		03/15/21 05:57	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: B-102D		Lab ID: 92524831031		Collected: 03/04/21 15:07		Received: 03/05/21 16:16		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.43	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	79.7	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 06:09	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 16:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 16:26	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 16:26	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 16:26	7440-41-7	
Boron	2.5	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 16:26	7440-42-8	
Cadmium	0.00081	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 16:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 16:26	7440-47-3	
Cobalt	0.014	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 16:26	7440-48-4	
Lead	0.000059J	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 16:26	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 16:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 16:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 16:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 16:26	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	03/16/21 07:30	03/16/21 12:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	459	mg/L	10.0	10.0	1		03/09/21 16:25		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.4	mg/L	1.0	0.60	1		03/14/21 23:26	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		03/14/21 23:26	16984-48-8	
Sulfate	256	mg/L	6.0	3.0	6		03/15/21 06:40	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: B-104D		Lab ID: 92524831032		Collected: 03/04/21 14:40		Received: 03/05/21 16:16		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	6.27	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	150	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 06:14	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00077J	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 16:31	7440-36-0	B
Arsenic	0.0025J	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 16:31	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 16:31	7440-39-3	
Beryllium	0.0015	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 16:31	7440-41-7	
Boron	0.26	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 16:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 16:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 16:31	7440-47-3	
Cobalt	0.19	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 16:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 16:31	7439-92-1	
Lithium	0.038	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 16:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 16:31	7439-98-7	
Selenium	0.0031J	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 16:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 16:31	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/16/21 07:30	03/16/21 12:53	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	818	mg/L	20.0	20.0	1		03/09/21 16:25		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.9	mg/L	1.0	0.60	1		03/14/21 23:40	16887-00-6	
Fluoride	0.43	mg/L	0.10	0.050	1		03/14/21 23:40	16984-48-8	
Sulfate	474	mg/L	10.0	5.0	10		03/15/21 06:54	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Sample: B-106D **Lab ID: 92524831033** Collected: 03/04/21 10:07 Received: 03/05/21 16:16 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		03/22/21 11:48		
pH	5.85	Std. Units			1		03/22/21 11:48		

6010D ATL ICP

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

Calcium	42.1	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 06:19	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	0.00028	1	03/17/21 09:55	03/17/21 16:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 16:37	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 16:37	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 16:37	7440-41-7	
Boron	1.4	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 16:37	7440-42-8	
Cadmium	0.00021J	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 16:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 16:37	7440-47-3	
Cobalt	0.00070J	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 16:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 16:37	7439-92-1	
Lithium	0.0054J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 16:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 16:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 16:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 16:37	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00020	0.000078	1	03/16/21 07:30	03/16/21 13:00	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	321	mg/L	10.0	10.0	1		03/09/21 16:26		
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300.0 IC Anions 28 Days

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

Chloride	7.8	mg/L	1.0	0.60	1		03/14/21 23:55	16887-00-6	
Fluoride	0.055J	mg/L	0.10	0.050	1		03/14/21 23:55	16984-48-8	
Sulfate	170	mg/L	4.0	2.0	4		03/15/21 07:09	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: B-107D		Lab ID: 92524831034		Collected: 03/04/21 11:45		Received: 03/05/21 16:16		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.97	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	83.9	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 06:24	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 16:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 16:43	7440-38-2	
Barium	0.12	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 16:43	7440-39-3	
Beryllium	0.000050J	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 16:43	7440-41-7	
Boron	12.0	mg/L	0.40	0.052	10	03/17/21 09:55	03/18/21 12:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 16:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 16:43	7440-47-3	
Cobalt	0.0012J	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 16:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 16:43	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 16:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 16:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 16:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 16:43	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	0.000078	1	03/16/21 07:30	03/16/21 13:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	525	mg/L	10.0	10.0	1		03/09/21 16:26		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.0	mg/L	1.0	0.60	1		03/15/21 00:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 00:38	16984-48-8	
Sulfate	309	mg/L	7.0	3.5	7		03/15/21 07:23	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: B-108D		Lab ID: 92524831035		Collected: 03/04/21 10:08		Received: 03/05/21 16:16		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	5.88	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	86.6	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 06:29	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 16:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 16:49	7440-38-2	
Barium	0.060	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 16:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 16:49	7440-41-7	
Boron	6.4	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 16:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 16:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 16:49	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 16:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 16:49	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 16:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 16:49	7439-98-7	
Selenium	0.0016J	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 16:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 16:49	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	03/16/21 14:45	03/17/21 10:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	569	mg/L	10.0	10.0	1		03/09/21 16:26		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	29.4	mg/L	1.0	0.60	1		03/15/21 00:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 00:52	16984-48-8	
Sulfate	309	mg/L	7.0	3.5	7		03/15/21 07:37	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: B-109D		Lab ID: 92524831039		Collected: 03/08/21 12:58		Received: 03/09/21 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	6.42	Std. Units			1		03/22/21 11:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	40.2	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 07:02	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00084J	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 17:11	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 17:11	7440-38-2	
Barium	0.056	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 17:11	7440-39-3	
Beryllium	0.000079J	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 17:11	7440-41-7	
Boron	0.55	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 17:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 17:11	7440-43-9	
Chromium	0.00061J	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 17:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 17:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 17:11	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 17:11	7439-93-2	
Molybdenum	0.0014J	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 17:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 17:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 17:11	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	03/16/21 14:45	03/17/21 10:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	305	mg/L	10.0	10.0	1		03/10/21 17:21		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.9	mg/L	1.0	0.60	1		03/16/21 09:40	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		03/16/21 09:40	16984-48-8	
Sulfate	102	mg/L	2.0	1.0	2		03/16/21 16:05	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: B-93		Lab ID: 92526988001		Collected: 03/09/21 14:52		Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:54		
pH	4.73	Std. Units			1		03/22/21 11:54		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	127	mg/L	1.0	0.070	1	03/18/21 12:20	03/20/21 02:35	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.015	0.0014	5	03/23/21 13:05	03/24/21 13:39	7440-36-0	D3
Arsenic	ND	mg/L	0.025	0.0039	5	03/23/21 13:05	03/24/21 13:39	7440-38-2	D3
Barium	0.016J	mg/L	0.025	0.0036	5	03/23/21 13:05	03/24/21 13:39	7440-39-3	D3
Beryllium	0.017	mg/L	0.0025	0.00023	5	03/23/21 13:05	03/24/21 13:39	7440-41-7	
Boron	3.4	mg/L	0.20	0.026	5	03/23/21 13:05	03/24/21 13:39	7440-42-8	
Cadmium	0.00075J	mg/L	0.0025	0.00059	5	03/23/21 13:05	03/24/21 13:39	7440-43-9	D3
Chromium	ND	mg/L	0.025	0.0028	5	03/23/21 13:05	03/24/21 13:39	7440-47-3	D3
Cobalt	0.061	mg/L	0.025	0.0019	5	03/23/21 13:05	03/24/21 13:39	7440-48-4	
Lead	ND	mg/L	0.0050	0.00018	5	03/23/21 13:05	03/24/21 13:39	7439-92-1	D3
Lithium	0.012J	mg/L	0.15	0.0040	5	03/23/21 13:05	03/24/21 13:39	7439-93-2	D3
Molybdenum	ND	mg/L	0.050	0.0034	5	03/23/21 13:05	03/24/21 13:39	7439-98-7	D3
Selenium	0.0099J	mg/L	0.025	0.0078	5	03/23/21 13:05	03/24/21 13:39	7782-49-2	D3
Thallium	ND	mg/L	0.0050	0.00072	5	03/23/21 13:05	03/24/21 13:39	7440-28-0	D3
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00015J	mg/L	0.00020	0.000078	1	03/25/21 08:05	03/25/21 13:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	790	mg/L	20.0	20.0	1		03/15/21 12:47		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.5	mg/L	1.0	0.60	1		03/17/21 19:55	16887-00-6	
Fluoride	0.34	mg/L	0.10	0.050	1		03/17/21 19:55	16984-48-8	
Sulfate	488	mg/L	11.0	5.5	11		03/18/21 11:44	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: DUP-2		Lab ID: 92524831036		Collected: 03/04/21 00:00	Received: 03/05/21 16:16	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	75.7	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 06:34	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 16:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 16:54	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 16:54	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 16:54	7440-41-7	
Boron	2.4	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 16:54	7440-42-8	
Cadmium	0.00071	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 16:54	7440-43-9	
Chromium	0.00063J	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 16:54	7440-47-3	
Cobalt	0.013	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 16:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 16:54	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 16:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 16:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 16:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 16:54	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	0.000078	1	03/16/21 14:45	03/17/21 10:06	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	446	mg/L	10.0	10.0	1		03/09/21 16:27		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	10.3	mg/L	1.0	0.60	1		03/15/21 01:07	16887-00-6	
Fluoride	0.084J	mg/L	0.10	0.050	1		03/15/21 01:07	16984-48-8	
Sulfate	254	mg/L	6.0	3.0	6		03/15/21 07:52	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: FB-2 Lab ID: 92524831037 Collected: 03/04/21 10:40 Received: 03/05/21 16:16 Matrix: Water									
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 06:38	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 17:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 17:00	7440-38-2	
Barium	0.0015J	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 17:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 17:00	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 17:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 17:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 17:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 17:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 17:00	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 17:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 17:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 17:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 17:00	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	03/16/21 14:45	03/17/21 10:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/09/21 16:27		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/15/21 01:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 01:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 01:21	14808-79-8	

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ANALYTICAL RESULTS

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Sample: EB-2		Lab ID: 92524831038		Collected: 03/04/21 13:20	Received: 03/05/21 16:16	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	03/17/21 09:57	03/19/21 06:43	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/17/21 09:55	03/17/21 17:06	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/17/21 09:55	03/17/21 17:06	7440-38-2		
Barium	0.0015J	mg/L	0.0050	0.00071	1	03/17/21 09:55	03/17/21 17:06	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/17/21 09:55	03/17/21 17:06	7440-41-7		
Boron	0.0055J	mg/L	0.040	0.0052	1	03/17/21 09:55	03/17/21 17:06	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/21 09:55	03/17/21 17:06	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/17/21 09:55	03/17/21 17:06	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 17:06	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/17/21 09:55	03/17/21 17:06	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 17:06	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/17/21 09:55	03/17/21 17:06	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/17/21 09:55	03/17/21 17:06	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/17/21 09:55	03/17/21 17:06	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	03/16/21 14:45	03/17/21 10:11	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/09/21 16:28			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/15/21 01:36	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 01:36	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 01:36	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 604554 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831015

METHOD BLANK: 3184787 Matrix: Water
 Associated Lab Samples: 92524831015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/09/21 12:31	

LABORATORY CONTROL SAMPLE: 3184788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184789 3184790

Parameter	Units	92524831009		3184790		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	36.0	1	36.5	36.3	44	33	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

QC Batch: 607149 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831026, 92524831027, 92524831028, 92524831029, 92524831030, 92524831031, 92524831032, 92524831033, 92524831034, 92524831035, 92524831036, 92524831037, 92524831038, 92524831039

METHOD BLANK: 3198600 Matrix: Water
 Associated Lab Samples: 92524831026, 92524831027, 92524831028, 92524831029, 92524831030, 92524831031, 92524831032, 92524831033, 92524831034, 92524831035, 92524831036, 92524831037, 92524831038, 92524831039

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/19/21 05:01	

LABORATORY CONTROL SAMPLE: 3198601

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: 3198602 3198603

Parameter	Units	92524831024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	75.8	1	1	76.8	76.5	102	71	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 607584 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526988001

METHOD BLANK: 3200680 Matrix: Water
 Associated Lab Samples: 92526988001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/20/21 00:30	

LABORATORY CONTROL SAMPLE: 3200681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200682 3200683

Parameter	Units	3200682		3200683		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524632021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	35.7	1	1	39.0	38.7	328	296	75-125	1	20 M1

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

QC Batch: 604612

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831015

METHOD BLANK: 3185232

Matrix: Water

Associated Lab Samples: 92524831015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/08/21 19:41	
Arsenic	mg/L	ND	0.0050	0.00078	03/08/21 19:41	
Barium	mg/L	ND	0.0050	0.00071	03/08/21 19:41	
Beryllium	mg/L	ND	0.00050	0.000046	03/08/21 19:41	
Boron	mg/L	ND	0.040	0.0052	03/08/21 19:41	
Cadmium	mg/L	ND	0.00050	0.00012	03/08/21 19:41	
Chromium	mg/L	ND	0.0050	0.00055	03/08/21 19:41	
Cobalt	mg/L	ND	0.0050	0.00038	03/08/21 19:41	
Lead	mg/L	ND	0.0010	0.000036	03/08/21 19:41	
Lithium	mg/L	ND	0.030	0.00081	03/08/21 19:41	
Molybdenum	mg/L	ND	0.010	0.00069	03/08/21 19:41	
Selenium	mg/L	ND	0.0050	0.0016	03/08/21 19:41	
Thallium	mg/L	ND	0.0010	0.00014	03/08/21 19:41	

LABORATORY CONTROL SAMPLE: 3185233

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	0.096	96	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.92	92	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.096	96	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	0.093	93	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3185234 3185235

Parameter	Units	92524831002 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	0.11	103	105	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Parameter	Units	3185234		3185235		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92524831002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.023	0.1	0.1	0.12	0.12	93	96	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.084	0.085	84	85	75-125	1	20		
Boron	mg/L	0.52	1	1	1.4	1.4	88	85	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Chromium	mg/L	0.00064J	0.1	0.1	0.094	0.098	94	97	75-125	4	20		
Cobalt	mg/L	0.0055	0.1	0.1	0.095	0.099	90	94	75-125	4	20		
Lead	mg/L	0.00014J	0.1	0.1	0.092	0.094	92	94	75-125	2	20		
Lithium	mg/L	0.023J	0.1	0.1	0.11	0.11	85	88	75-125	2	20		
Molybdenum	mg/L	0.0021J	0.1	0.1	0.096	0.099	93	97	75-125	4	20		
Selenium	mg/L	0.0037J	0.1	0.1	0.093	0.096	90	93	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.090	0.093	90	92	75-125	3	20		

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 607169 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831026, 92524831027, 92524831028, 92524831029, 92524831030, 92524831031, 92524831032, 92524831033, 92524831034, 92524831035, 92524831036, 92524831037, 92524831038, 92524831039

METHOD BLANK: 3198666 Matrix: Water
 Associated Lab Samples: 92524831026, 92524831027, 92524831028, 92524831029, 92524831030, 92524831031, 92524831032, 92524831033, 92524831034, 92524831035, 92524831036, 92524831037, 92524831038, 92524831039

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00033J	0.0030	0.00028	03/17/21 15:11	
Arsenic	mg/L	ND	0.0050	0.00078	03/17/21 15:11	
Barium	mg/L	ND	0.0050	0.00071	03/17/21 15:11	
Beryllium	mg/L	ND	0.00050	0.000046	03/17/21 15:11	
Boron	mg/L	ND	0.040	0.0052	03/17/21 15:11	
Cadmium	mg/L	ND	0.00050	0.00012	03/17/21 15:11	
Chromium	mg/L	ND	0.0050	0.00055	03/17/21 15:11	
Cobalt	mg/L	ND	0.0050	0.00038	03/17/21 15:11	
Lead	mg/L	ND	0.0010	0.000036	03/17/21 15:11	
Lithium	mg/L	ND	0.030	0.00081	03/17/21 15:11	
Molybdenum	mg/L	ND	0.010	0.00069	03/17/21 15:11	
Selenium	mg/L	ND	0.0050	0.0016	03/17/21 15:11	
Thallium	mg/L	ND	0.0010	0.00014	03/17/21 15:11	

LABORATORY CONTROL SAMPLE: 3198667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198668 3198669

Parameter	Units	92524831026 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Parameter	Units	3198668		3198669		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92524831026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Arsenic	mg/L	ND	0.1	0.1	0.099	0.10	98	100	75-125	2	20		
Barium	mg/L	0.022	0.1	0.1	0.12	0.12	99	100	75-125	1	20		
Beryllium	mg/L	0.0050	0.1	0.1	0.092	0.092	87	87	75-125	0	20		
Boron	mg/L	3.5	1	1	4.3	4.4	78	86	75-125	2	20		
Cadmium	mg/L	0.0065	0.1	0.1	0.10	0.10	96	97	75-125	1	20		
Chromium	mg/L	0.0017J	0.1	0.1	0.092	0.095	90	93	75-125	3	20		
Cobalt	mg/L	0.022	0.1	0.1	0.11	0.12	92	94	75-125	2	20		
Lead	mg/L	0.012	0.1	0.1	0.10	0.10	88	89	75-125	1	20		
Lithium	mg/L	0.029J	0.1	0.1	0.12	0.12	87	92	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.096	96	96	75-125	1	20		
Selenium	mg/L	0.0033J	0.1	0.1	0.11	0.11	104	105	75-125	1	20		
Thallium	mg/L	0.00020J	0.1	0.1	0.088	0.090	88	90	75-125	2	20		

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 608528 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526988001

METHOD BLANK: 3205426 Matrix: Water
 Associated Lab Samples: 92526988001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/23/21 18:59	
Arsenic	mg/L	ND	0.0050	0.00078	03/23/21 18:59	
Barium	mg/L	ND	0.0050	0.00071	03/23/21 18:59	
Beryllium	mg/L	ND	0.00050	0.000046	03/23/21 18:59	
Boron	mg/L	ND	0.040	0.0052	03/23/21 18:59	
Cadmium	mg/L	ND	0.00050	0.00012	03/23/21 18:59	
Chromium	mg/L	ND	0.0050	0.00055	03/23/21 18:59	
Cobalt	mg/L	ND	0.0050	0.00038	03/23/21 18:59	
Lead	mg/L	ND	0.0010	0.000036	03/24/21 12:59	
Lithium	mg/L	ND	0.030	0.00081	03/23/21 18:59	
Molybdenum	mg/L	ND	0.010	0.00069	03/23/21 18:59	
Selenium	mg/L	ND	0.0050	0.0016	03/23/21 18:59	
Thallium	mg/L	ND	0.0010	0.00014	03/23/21 18:59	

LABORATORY CONTROL SAMPLE: 3205427

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	0.092	92	80-120	
Barium	mg/L	0.1	0.092	92	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.094	94	80-120	
Chromium	mg/L	0.1	0.093	93	80-120	
Cobalt	mg/L	0.1	0.091	91	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Thallium	mg/L	0.1	0.087	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3205457 3205458

Parameter	Units	92527018001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.096	100	96	75-125	3	20	
Arsenic	mg/L	1.6J ug/L	0.1	0.1	0.095	0.091	93	89	75-125	4	20	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Parameter	Units	3205457		3205458		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92527018001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	14.8 ug/L	0.1	0.1	0.11	0.10	92	88	75-125	3	20		
Beryllium	mg/L	2.6 ug/L	0.1	0.1	0.091	0.089	89	87	75-125	2	20		
Boron	mg/L	4230 ug/L	1	1	5.1	5.1	92	84	75-125	2	20		
Cadmium	mg/L	1.2 ug/L	0.1	0.1	0.094	0.090	92	89	75-125	4	20		
Chromium	mg/L	ND	0.1	0.1	0.093	0.090	92	90	75-125	3	20		
Cobalt	mg/L	12.5 ug/L	0.1	0.1	0.10	0.10	90	88	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.084	0.083	84	83	75-125	1	20		
Lithium	mg/L	5.9J ug/L	0.1	0.1	0.096	0.094	90	89	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.093	96	93	75-125	4	20		
Selenium	mg/L	6.9 ug/L	0.1	0.1	0.10	0.093	93	86	75-125	7	20		
Thallium	mg/L	0.18J ug/L	0.1	0.1	0.083	0.082	83	82	75-125	1	20		

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 604663	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831015

METHOD BLANK: 3185603 Matrix: Water
 Associated Lab Samples: 92524831015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/08/21 14:27	

LABORATORY CONTROL SAMPLE: 3185604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3185605 3185606

Parameter	Units	92524831012		3185606		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0022	95	88	75-125	7	20

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 605942 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831026, 92524831027, 92524831028

METHOD BLANK: 3192294 Matrix: Water
 Associated Lab Samples: 92524831026, 92524831027, 92524831028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/12/21 09:24	

LABORATORY CONTROL SAMPLE: 3192295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192296 3192297

Parameter	Units	3192296		3192297		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0024	97	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 606569 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831029, 92524831030, 92524831031, 92524831032, 92524831033, 92524831034

METHOD BLANK: 3195650 Matrix: Water
 Associated Lab Samples: 92524831029, 92524831030, 92524831031, 92524831032, 92524831033, 92524831034

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/16/21 12:41	

LABORATORY CONTROL SAMPLE: 3195651

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: 3195652 3195653

Parameter	Units	3195652		3195653		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0020	0.0018	79	73	75-125	8	20	M1

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 606880 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831035, 92524831036, 92524831037, 92524831038, 92524831039

METHOD BLANK: 3197255 Matrix: Water
 Associated Lab Samples: 92524831035, 92524831036, 92524831037, 92524831038, 92524831039

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/17/21 09:31	

LABORATORY CONTROL SAMPLE: 3197256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3197257 3197258

Parameter	Units	3197257		3197258		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92525919012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	95	99	75-125	4	20	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 609136	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526988001

METHOD BLANK: 3208288 Matrix: Water
 Associated Lab Samples: 92526988001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/25/21 13:28	

LABORATORY CONTROL SAMPLE: 3208289

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3208290 3208291

Parameter	Units	3208290		3208291		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92528826006 ND	0.0025	0.0025	0.0026	0.0023	102	92	75-125	10	20

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

QC Batch: 604626	Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92524831015

METHOD BLANK: 3185317 Matrix: Water

Associated Lab Samples: 92524831015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 15:33	

LABORATORY CONTROL SAMPLE: 3185318

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

SAMPLE DUPLICATE: 3185319

Parameter	Units	92525822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	290	6	10	

SAMPLE DUPLICATE: 3185328

Parameter	Units	92524831016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	325	354	9	10	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 605136 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831029, 92524831030, 92524831031, 92524831032, 92524831033, 92524831034, 92524831035, 92524831036, 92524831037, 92524831038

METHOD BLANK: 3187989 Matrix: Water
 Associated Lab Samples: 92524831029, 92524831030, 92524831031, 92524831032, 92524831033, 92524831034, 92524831035, 92524831036, 92524831037, 92524831038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/09/21 16:18	

LABORATORY CONTROL SAMPLE: 3187990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	90-111	

SAMPLE DUPLICATE: 3187991

Parameter	Units	92525375013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3187992

Parameter	Units	92524831030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	234	232	1	10	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 605516 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831026, 92524831027, 92524831028, 92524831039

METHOD BLANK: 3189891 Matrix: Water
 Associated Lab Samples: 92524831026, 92524831027, 92524831028, 92524831039

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/10/21 17:21	

LABORATORY CONTROL SAMPLE: 3189892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	370	92	90-111	

SAMPLE DUPLICATE: 3189893

Parameter	Units	92524831026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	798	800	0	10	

SAMPLE DUPLICATE: 3189894

Parameter	Units	92526337002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	415	425	2	10	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 606580 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526988001

METHOD BLANK: 3195732 Matrix: Water
 Associated Lab Samples: 92526988001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/15/21 12:47	

LABORATORY CONTROL SAMPLE: 3195733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	90-111	

SAMPLE DUPLICATE: 3195734

Parameter	Units	92526988001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	790	840	6	10	

SAMPLE DUPLICATE: 3195735

Parameter	Units	92526996004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 606452 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92524831015

METHOD BLANK: 3195118 Matrix: Water
 Associated Lab Samples: 92524831015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 11:23	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 11:23	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 11:23	

LABORATORY CONTROL SAMPLE: 3195119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	53.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195120 3195121

Parameter	Units	92524831015		3195120		3195121		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec	MSD % Rec
Chloride	mg/L	8.3	50	50	61.2	62.7	106	109	90-110	2	10
Fluoride	mg/L	0.34	2.5	2.5	4.0	4.0	148	147	90-110	1	10 M1
Sulfate	mg/L	225	50	50	267	269	84	87	90-110	1	10 M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195122 3195123

Parameter	Units	92524831022		3195122		3195123		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec	MSD % Rec
Chloride	mg/L	2.9	50	50	56.8	57.0	108	108	90-110	0	10
Fluoride	mg/L	0.71	2.5	2.5	4.6	4.7	154	158	90-110	2	10 M1
Sulfate	mg/L	143	50	50	193	193	100	100	90-110	0	10

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

QC Batch: 606497 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92524831026, 92524831027

METHOD BLANK: 3195321 Matrix: Water
 Associated Lab Samples: 92524831026, 92524831027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/15/21 05:49	
Fluoride	mg/L	ND	0.10	0.050	03/15/21 05:49	
Sulfate	mg/L	ND	1.0	0.50	03/15/21 05:49	

LABORATORY CONTROL SAMPLE: 3195322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.1	92	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	45.3	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195323 3195324

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525919013 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.9	50	50	56.7	55.0	102	98	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.4	99	97	90-110	3	10		
Sulfate	mg/L	38.9	50	50	90.2	88.6	103	99	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195325 3195326

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525657006 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.8	50	50	55.5	56.0	100	100	90-110	1	10		
Fluoride	mg/L	0.076J	2.5	2.5	2.6	2.7	103	103	90-110	0	10		
Sulfate	mg/L	251	50	50	293	305	83	108	90-110	4	10 M6		

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV
Pace Project No.: 92530271

QC Batch: 606498 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: 92524831028, 92524831029, 92524831030, 92524831031, 92524831032, 92524831033, 92524831034, 92524831035, 92524831036, 92524831037, 92524831038

METHOD BLANK: 3195327 Matrix: Water
Associated Lab Samples: 92524831028, 92524831029, 92524831030, 92524831031, 92524831032, 92524831033, 92524831034, 92524831035, 92524831036, 92524831037, 92524831038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/14/21 21:13	
Fluoride	mg/L	ND	0.10	0.050	03/14/21 21:13	
Sulfate	mg/L	ND	1.0	0.50	03/14/21 21:13	

LABORATORY CONTROL SAMPLE: 3195328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.9	98	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195329 3195330

Parameter	Units	92524831028		3195330		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	39.2	50	87.7	90.2	97	102	90-110	3	10	
Fluoride	mg/L	0.51	2.5	3.0	3.1	98	103	90-110	4	10	
Sulfate	mg/L	270	50	325	318	110	96	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195331 3195332

Parameter	Units	92526870001		3195332		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	5.2	50	57.0	56.4	104	102	90-110	1	10	
Fluoride	mg/L	0.38	2.5	3.3	3.2	116	114	90-110	2	10 M1	
Sulfate	mg/L	5.4	50	58.9	58.2	107	106	90-110	1	10	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

QC Batch: 606641	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: 92524831039

METHOD BLANK: 3196222 Matrix: Water

Associated Lab Samples: 92524831039

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/16/21 04:09	
Fluoride	mg/L	ND	0.10	0.050	03/16/21 04:09	
Sulfate	mg/L	ND	1.0	0.50	03/16/21 04:09	

LABORATORY CONTROL SAMPLE: 3196223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196224 3196225

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	Spike Conc.	Spike Conc.	Result							
Chloride	mg/L	2170	50	50	2220	2220	100	95	90-110	0	10	
Fluoride	mg/L				8.8	8.5				3	10	M6
Sulfate	mg/L				1800	1790				0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196226 3196227

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	Spike Conc.	Spike Conc.	Result							
Chloride	mg/L	1620	50	50	1640	1650	49	61	90-110	0	10	M6
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	M6
Sulfate	mg/L	25.1	50	50	70.0	71.8	90	93	90-110	2	10	

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QUALITY CONTROL DATA

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

QC Batch:	607170	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: 92526988001

METHOD BLANK: 3198670 Matrix: Water

Associated Lab Samples: 92526988001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/17/21 17:51	
Fluoride	mg/L	ND	0.10	0.050	03/17/21 17:51	
Sulfate	mg/L	ND	1.0	0.50	03/17/21 17:51	

LABORATORY CONTROL SAMPLE: 3198671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	52.7	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198672 3198673

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527256001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	7.4	50	50	59.6	59.8	104	105	90-110	0	10		
Fluoride	mg/L	0.079J	2.5	2.5	2.7	2.7	106	107	90-110	0	10		
Sulfate	mg/L	49.6	50	50	94.1	95.1	89	91	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198674 3198675

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527256002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.9	50	50	54.4	53.4	103	101	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	3.0	2.8	118	112	90-110	6	10	M1	
Sulfate	mg/L	1.2	50	50	54.5	53.7	107	105	90-110	1	10		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524831015	B-56				
92524831026	B-88				
92524831027	B-101D				
92524831028	B-111D				
92524831029	B-77				
92524831030	B-83				
92524831031	B-102D				
92524831032	B-104D				
92524831033	B-106D				
92524831034	B-107D				
92524831035	B-108D				
92524831039	B-109D				
92526988001	B-93				
92524831015	B-56	EPA 3010A	604554	EPA 6010D	604641
92524831026	B-88	EPA 3010A	607149	EPA 6010D	607253
92524831027	B-101D	EPA 3010A	607149	EPA 6010D	607253
92524831028	B-111D	EPA 3010A	607149	EPA 6010D	607253
92524831029	B-77	EPA 3010A	607149	EPA 6010D	607253
92524831030	B-83	EPA 3010A	607149	EPA 6010D	607253
92524831031	B-102D	EPA 3010A	607149	EPA 6010D	607253
92524831032	B-104D	EPA 3010A	607149	EPA 6010D	607253
92524831033	B-106D	EPA 3010A	607149	EPA 6010D	607253
92524831034	B-107D	EPA 3010A	607149	EPA 6010D	607253
92524831035	B-108D	EPA 3010A	607149	EPA 6010D	607253
92524831036	DUP-2	EPA 3010A	607149	EPA 6010D	607253
92524831037	FB-2	EPA 3010A	607149	EPA 6010D	607253
92524831038	EB-2	EPA 3010A	607149	EPA 6010D	607253
92524831039	B-109D	EPA 3010A	607149	EPA 6010D	607253
92526988001	B-93	EPA 3010A	607584	EPA 6010D	607676
92524831015	B-56	EPA 3005A	604612	EPA 6020B	604686
92524831026	B-88	EPA 3005A	607169	EPA 6020B	607293
92524831027	B-101D	EPA 3005A	607169	EPA 6020B	607293
92524831028	B-111D	EPA 3005A	607169	EPA 6020B	607293
92524831029	B-77	EPA 3005A	607169	EPA 6020B	607293
92524831030	B-83	EPA 3005A	607169	EPA 6020B	607293
92524831031	B-102D	EPA 3005A	607169	EPA 6020B	607293
92524831032	B-104D	EPA 3005A	607169	EPA 6020B	607293
92524831033	B-106D	EPA 3005A	607169	EPA 6020B	607293
92524831034	B-107D	EPA 3005A	607169	EPA 6020B	607293
92524831035	B-108D	EPA 3005A	607169	EPA 6020B	607293
92524831036	DUP-2	EPA 3005A	607169	EPA 6020B	607293
92524831037	FB-2	EPA 3005A	607169	EPA 6020B	607293
92524831038	EB-2	EPA 3005A	607169	EPA 6020B	607293
92524831039	B-109D	EPA 3005A	607169	EPA 6020B	607293
92526988001	B-93	EPA 3005A	608528	EPA 6020B	608679

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AP-234 Assessment III & IV
 Pace Project No.: 92530271

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524831015	B-56	EPA 7470A	604663	EPA 7470A	604884
92524831026	B-88	EPA 7470A	605942	EPA 7470A	606185
92524831027	B-101D	EPA 7470A	605942	EPA 7470A	606185
92524831028	B-111D	EPA 7470A	605942	EPA 7470A	606185
92524831029	B-77	EPA 7470A	606569	EPA 7470A	606823
92524831030	B-83	EPA 7470A	606569	EPA 7470A	606823
92524831031	B-102D	EPA 7470A	606569	EPA 7470A	606823
92524831032	B-104D	EPA 7470A	606569	EPA 7470A	606823
92524831033	B-106D	EPA 7470A	606569	EPA 7470A	606823
92524831034	B-107D	EPA 7470A	606569	EPA 7470A	606823
92524831035	B-108D	EPA 7470A	606880	EPA 7470A	606933
92524831036	DUP-2	EPA 7470A	606880	EPA 7470A	606933
92524831037	FB-2	EPA 7470A	606880	EPA 7470A	606933
92524831038	EB-2	EPA 7470A	606880	EPA 7470A	606933
92524831039	B-109D	EPA 7470A	606880	EPA 7470A	606933
92526988001	B-93	EPA 7470A	609136	EPA 7470A	609168
92524831015	B-56	SM 2450C-2011	604626		
92524831026	B-88	SM 2450C-2011	605516		
92524831027	B-101D	SM 2450C-2011	605516		
92524831028	B-111D	SM 2450C-2011	605516		
92524831029	B-77	SM 2450C-2011	605136		
92524831030	B-83	SM 2450C-2011	605136		
92524831031	B-102D	SM 2450C-2011	605136		
92524831032	B-104D	SM 2450C-2011	605136		
92524831033	B-106D	SM 2450C-2011	605136		
92524831034	B-107D	SM 2450C-2011	605136		
92524831035	B-108D	SM 2450C-2011	605136		
92524831036	DUP-2	SM 2450C-2011	605136		
92524831037	FB-2	SM 2450C-2011	605136		
92524831038	EB-2	SM 2450C-2011	605136		
92524831039	B-109D	SM 2450C-2011	605516		
92526988001	B-93	SM 2450C-2011	606580		
92524831015	B-56	EPA 300.0 Rev 2.1 1993	606452		
92524831026	B-88	EPA 300.0 Rev 2.1 1993	606497		
92524831027	B-101D	EPA 300.0 Rev 2.1 1993	606497		
92524831028	B-111D	EPA 300.0 Rev 2.1 1993	606498		
92524831029	B-77	EPA 300.0 Rev 2.1 1993	606498		
92524831030	B-83	EPA 300.0 Rev 2.1 1993	606498		
92524831031	B-102D	EPA 300.0 Rev 2.1 1993	606498		
92524831032	B-104D	EPA 300.0 Rev 2.1 1993	606498		
92524831033	B-106D	EPA 300.0 Rev 2.1 1993	606498		
92524831034	B-107D	EPA 300.0 Rev 2.1 1993	606498		
92524831035	B-108D	EPA 300.0 Rev 2.1 1993	606498		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AP-234 Assessment III & IV

Pace Project No.: 92530271

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524831036	DUP-2	EPA 300.0 Rev 2.1 1993	606498		
92524831037	FB-2	EPA 300.0 Rev 2.1 1993	606498		
92524831038	EB-2	EPA 300.0 Rev 2.1 1993	606498		
92524831039	B-109D	EPA 300.0 Rev 2.1 1993	606641		
92526988001	B-93	EPA 300.0 Rev 2.1 1993	607170		

REPORT OF LABORATORY ANALYSIS

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

Document Revised: October 28, 2009
Page 1 of 2
Issuing Authority:
Face Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #

WO#: 92524825

County: Commercial Fed Ex UPS USPS Client Face Other _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: PC 3/2/21

Packing Material: Bubble Wrap Bubble Bags None Other _____

Biological Tissue Frozen?

Thermometer: All-Gun ID: 213 Type of Ice: Dry Blue None

Yes No N/A

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) ±0.4

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 1.5

USDA Regulated Soil (N/A, water sample)

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

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match DOC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>wt</u>		
Headspace in VOA Vials (≤5-dmm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCUR Review: _____ Date: _____

Project Manager SRP Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a USDA SOO/Qualifier. All relevant fields must be completed accurately.

Page 1 of 1

Section 1: Analytical Request Information		Section 2: Analytical Request Information		Section 3: Analytical Information	
Requester Name	Requester Title	Requester Name	Requester Title	Requester Name	Requester Title
Requester Address	Requester Phone	Requester Address	Requester Phone	Requester Name	Requester Title
Requester Email	Requester Fax	Requester Address	Requester Phone	Requester Name	Requester Title
Requester Email	Requester Fax	Requester Address	Requester Phone	Requester Name	Requester Title

ITEM #	DESCRIPTION	DATE	TIME	INITIALS	ANALYSIS TEST	RESULTS
1	SAMPLE ID					
2	DATE					
3	TIME					
4	INITIALS					
5	ANALYSIS TEST					
6	RESULTS					

ITEM #	DESCRIPTION	DATE	TIME	INITIALS	ANALYSIS TEST	RESULTS
1	...					
2	...					
3	...					
4	...					
5	...					
6	...					
7	...					
8	...					
9	...					
10	...					
11	...					
12	...					
13	...					
14	...					
15	...					

Requester Name	Requester Title	Requester Name	Requester Title
Requester Address	Requester Phone	Requester Address	Requester Phone
Requester Email	Requester Fax	Requester Address	Requester Phone
Requester Email	Requester Fax	Requester Address	Requester Phone



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

Request Information
Requester: Jada Rodriguez
Request Date: 02/16/2018
Requester Address: 1000 S. ...

Main table with columns: SAMPLE ID, DATE, TIME, ANALYSIS TEST, etc. Contains handwritten entries for samples B-88, B-101D, and B-111D.

ANALYST SIGNATURE AND INFORMATION
Name: J. Rodriguez
Signature: [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 2

Section A Requestor Client Information	Section B Requestor Request Information	Section C Requestor Information
Requestor Name: [Blank] Requestor Address: [Blank] Requestor City/State/Zip: [Blank] Requestor Phone: [Blank] Requestor Email: [Blank]	Requestor Name: [Blank] Requestor Address: [Blank] Requestor City/State/Zip: [Blank] Requestor Phone: [Blank] Requestor Email: [Blank]	Requestor Name: [Blank] Requestor Address: [Blank] Requestor City/State/Zip: [Blank] Requestor Phone: [Blank] Requestor Email: [Blank]
Requestor Name: [Blank] Requestor Address: [Blank] Requestor City/State/Zip: [Blank] Requestor Phone: [Blank] Requestor Email: [Blank]	Requestor Name: [Blank] Requestor Address: [Blank] Requestor City/State/Zip: [Blank] Requestor Phone: [Blank] Requestor Email: [Blank]	Requestor Name: [Blank] Requestor Address: [Blank] Requestor City/State/Zip: [Blank] Requestor Phone: [Blank] Requestor Email: [Blank]

ITEM #	SAMPLE ID	DATE	TIME	LOCATION	ANALYSIS TEST	RESULTS	ANALYST	DATE	TIME	LABORATORY	REMARKS
1	B-17	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
2	B-18	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
3	B-19	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
4	B-20	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
5	B-21	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
6	B-22	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
7	B-23	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
8	B-24	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
9	B-25	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
10	B-26	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
11	B-27	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
12	B-28	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
13	B-29	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...
14	B-30	10/10/11	10:00	1000	Trace Metals	...	...	...	...	...	...

Requestor Name: [Blank]
 Requestor Address: [Blank]
 Requestor City/State/Zip: [Blank]
 Requestor Phone: [Blank]
 Requestor Email: [Blank]



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 Requester (Name, Organization, Address, City, State, Zip, Country, Phone, Fax, Email)	Section B Requester (Name, Organization, Address, City, State, Zip, Country, Phone, Fax, Email)	Section C Requester (Name, Organization, Address, City, State, Zip, Country, Phone, Fax, Email)
Section D Requester (Name, Organization, Address, City, State, Zip, Country, Phone, Fax, Email)	Section E Requester (Name, Organization, Address, City, State, Zip, Country, Phone, Fax, Email)	Section F Requester (Name, Organization, Address, City, State, Zip, Country, Phone, Fax, Email)

ITEM #	DESCRIPTION, COMMENTS	DATE	TIME	INITIALS	SIGNATURE	TITLE	ORGANIZATION	ADDRESS	CITY	STATE	ZIP	COUNTRY	PHONE	FAX	EMAIL	ANALYSIS TEST		REMARKS (Other)
																TEST #	TEST NAME	
1	SAMPLE ID New Samples per box Total: 100, 100, 100 Samples are stored in original																	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		


Requester (Name, Organization, Address, City, State, Zip, Country, Phone, Fax, Email)	Requester (Name, Organization, Address, City, State, Zip, Country, Phone, Fax, Email)	Requester (Name, Organization, Address, City, State, Zip, Country, Phone, Fax, Email)
---	---	---

Receiving

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a critical document. All relevant fields must be completed accurately.

WO# : 92526990



92526990

Requester's Name	Requester's Organization	Requester's Address	Requester's Phone
Requester's Title	Requester's Email	Requester's Fax	Requester's Email
Requester's Signature	Requester's Initials	Requester's Date	Requester's Location
Requester's Title	Requester's Organization	Requester's Address	Requester's Phone
Requester's Title	Requester's Email	Requester's Fax	Requester's Email
Requester's Signature	Requester's Initials	Requester's Date	Requester's Location
Requester's Title	Requester's Organization	Requester's Address	Requester's Phone
Requester's Title	Requester's Email	Requester's Fax	Requester's Email
Requester's Signature	Requester's Initials	Requester's Date	Requester's Location
Requester's Title	Requester's Organization	Requester's Address	Requester's Phone
Requester's Title	Requester's Email	Requester's Fax	Requester's Email
Requester's Signature	Requester's Initials	Requester's Date	Requester's Location

ITEM #	SAMPLE ID	ANALYSIS REQUESTED	ANALYSIS METHOD	ANALYSIS UNIT	ANALYSIS DATE		ANALYSIS LOCATION		ANALYSIS STATUS		
					DATE	TIME	LOCATION	STATUS	DATE	TIME	LOCATION	STATUS
1	100	100	100	100	100	100	100	100	100	100	100
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Signature: *[Handwritten Signature]*
Date: 3/11/08
Time: 9:50
Location: *[Handwritten Location]*
Status: *[Handwritten Status]*

Notes: *[Handwritten Notes]*

April 05, 2021

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

RE: Project: B-62 MAJOR IONS
Pace Project No.: 92531032

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Stephen Benda
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Jimmy Jones, Golder Associates Inc.
Kristen Jurinko
Julie Lehrman, Golder Associates Inc.
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: B-62 MAJOR IONS

Pace Project No.: 92531032

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: B-62 MAJOR IONS
Pace Project No.: 92531032

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526978002	B-62	Water	03/12/21 14:27	03/12/21 17:23

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: B-62 MAJOR IONS

Pace Project No.: 92531032

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92526978002	B-62	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3

PASI-A = Pace Analytical Services - Asheville

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B-62 MAJOR IONS

Pace Project No.: 92531032

Sample: B-62 **Lab ID: 92526978002** Collected: 03/12/21 14:27 Received: 03/12/21 17:23 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									
Sodium	10.4	mg/L	1.0	0.26	1	03/18/21 12:20	03/20/21 16:55	7440-23-5	
Magnesium	5.6	mg/L	0.050	0.0076	1	03/18/21 12:20	03/20/21 16:55	7439-95-4	
Potassium	2.2	mg/L	0.20	0.056	1	03/18/21 12:20	03/22/21 15:16	7440-09-7	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	67.4	mg/L	5.0	5.0	1		03/24/21 12:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/24/21 12:53		
Alkalinity, Total as CaCO3	67.4	mg/L	5.0	5.0	1		03/24/21 12:53		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B-62 MAJOR IONS
 Pace Project No.: 92531032

QC Batch: 607584 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526978002

METHOD BLANK: 3200680 Matrix: Water
 Associated Lab Samples: 92526978002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	0.0082J	0.050	0.0076	03/20/21 00:30	
Potassium	mg/L	ND	0.20	0.056	03/20/21 00:30	
Sodium	mg/L	ND	1.0	0.26	03/20/21 00:30	

LABORATORY CONTROL SAMPLE: 3200681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200682 3200683

Parameter	Units	92524632021		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result								% Rec	% Rec
Magnesium	mg/L	18.4	1	1	20.6	20.4	221	194	75-125	1	20	M1		
Potassium	mg/L	0.75	1	1	1.9	2.0	115	121	75-125	3	20			
Sodium	mg/L	2.1	1	1	3.3	3.3	124	120	75-125	1	20			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B-62 MAJOR IONS
 Pace Project No.: 92531032

QC Batch: 608537 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526978002

METHOD BLANK: 3205445 Matrix: Water
 Associated Lab Samples: 92526978002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/24/21 11:50	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/24/21 11:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/24/21 11:50	

LABORATORY CONTROL SAMPLE: 3205446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3206750 3206751

Parameter	Units	92528425003		3206751		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	87.1	50	50	135	135	96	96	80-120	0	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3206752 3206753

Parameter	Units	92528425004		3206753		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	ND	50	50	54.6	54.3	106	106	80-120	1	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: B-62 MAJOR IONS

Pace Project No.: 92531032

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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: B-62 MAJOR IONS

Pace Project No.: 92531032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526978002	B-62	EPA 3010A	607584	EPA 6010D	607676
92526978002	B-62	SM 2320B-2011	608537		

REPORT OF LABORATORY ANALYSIS

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Company Name: _____
 Sample Location: _____
 Document No.: _____
 I-1040-03-013-Rev. 07

Date: October 18, 2011
 Page 1 of 2
 Project No: _____
 Pace Analytical
 1000 Galloway Causeway, Suite 100

Lab location in which sample taken:

Asheville Eden Brevard Hendersonville Raleigh Mechanicsville Atlanta Knoxville

Customer Name: GA Power

City of Sample: _____

Project #: _____

Container: 20 Gallon 5 Gallon 2 Gallon Other
 Composite First Other: _____

Is Sample for Compliance? Yes No Not Related No No

Comments for this sample: _____

Testing Method: Bubble Flow Bubble Up Other Other

Testing Method to be used:

Yes No N/A

Flow Rate: 2.30 L/min Yes No No

Sample Temp: 21 °C Yes No No

Time should be taken for sample to be used:

Samples out of range of these analytes using testing procedure

Sample Temp to be used for EPA: 21 °C

EPA Regulated Solids: Yes No N/A

Did samples originate from a facility listed in the United States GA, NC, or SC (Other) category?

Did samples originate from a facility listed in the Government or Military (Other) category? Yes No

Yes No

Comments/Remarks:

Code of Location/Parameter	Yes	No	Other	Notes
Samples Analyzed and Passed (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Standard Hold Time Exceeded (Yes/No)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2
Blank Run Analyzed (Yes/No)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
Substrate Used (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	21
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	23
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	27
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	28
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29
Control Conditions Used? (Yes/No)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	30

Comments/Remarks for Sample # _____

Method of Sample Type: Yes No

Total ID of sub-components: _____

Comments/Remarks for Sample # _____

Project Operator: _____

City/State: _____

Project Manager: _____

Date: _____

Project Manager: _____

Print: _____



pH-4001100-14
 Sample Condition Log for HSCU
 Document # 14
 04/29/14 1:55:48 PM

Document # 14 - Date: 04/29/14
 Page 2 of 2
 Sample Laboratory
 State Center Health Office

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

*Bottom half of box is to list number of bottles

Project #

1 of 1

Box #	Sample Description	1	2	3	4	5	6	7	8	9	10	11	12
1	1000-1000-1000-1000-1000-1000												
2	1000-1000-1000-1000-1000-1000												
3	1000-1000-1000-1000-1000-1000												
4	1000-1000-1000-1000-1000-1000												
5	1000-1000-1000-1000-1000-1000												
6	1000-1000-1000-1000-1000-1000												
7	1000-1000-1000-1000-1000-1000												
8	1000-1000-1000-1000-1000-1000												
9	1000-1000-1000-1000-1000-1000												
10	1000-1000-1000-1000-1000-1000												
11	1000-1000-1000-1000-1000-1000												
12	1000-1000-1000-1000-1000-1000												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	(Step #)	Initial pH (before adjustment)	Target pH (after adjustment)	Amount of Preservative added	Date

Note: All pHs should be adjusted to the target pH range before use. If the pH is not adjusted, the sample may be unusable.

2/2/2009

CHALLENGE-CUSTOMER ANALYTICAL REQUEST DOCUMENT
 The Client/Company is LEAD OCTOBER. An external team will be required to complete this request.

Section 1
 Request Details

Section 2
 Request Information

Section 3
 Request Summary

Request Name	Request Description	Request Information
Request ID	Request Status	Request Priority
Request Type	Request Category	Request Sub-Category
Request Date	Request Start Date	Request End Date
Request By	Request Owner	Request Manager
Request Status	Request Progress	Request Comments

Item ID	Item Name	Item Description	Item Status	Item Priority	Item Category	Item Sub-Category	Item Manager	Item Owner	Item Start Date	Item End Date	Item Comments
1	EXAMPLE NO	EXAMPLE NO	EXAMPLE NO	EXAMPLE NO	EXAMPLE NO	EXAMPLE NO	EXAMPLE NO	EXAMPLE NO	EXAMPLE NO	EXAMPLE NO	EXAMPLE NO
2											
3											
4											
5											
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April 27, 2021

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

RE: Project: MCDONOUGH UPGRADIENT III & IV
Pace Project No.: 92533252

Dear Joju Abraham:

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



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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 III & IV

Pace Project No.: 92533252

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT III & IV

Pace Project No.: 92533252

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92533252001	B-116D	Water	04/13/21 15:15	04/14/21 16:00
92533252002	B-117D	Water	04/14/21 12:35	04/14/21 16:00
92533252003	B-118	Water	04/13/21 11:45	04/14/21 16:00
92533252004	B-119D	Water	04/13/21 14:59	04/14/21 16:00

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT III & IV
 Pace Project No.: 92533252

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92533252001	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
92533252002	B-117D	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
92533252003	B-118	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
92533252004	B-119D	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 III & IV

Pace Project No.: 92533252

Sample: B-116D **Lab ID: 92533252001** Collected: 04/13/21 15:15 Received: 04/14/21 16:00 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		04/27/21 16:31		
pH	6.06	Std. Units			1		04/27/21 16:31		

6010D ATL ICP

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

Calcium	10.6	mg/L	1.0	0.070	1	04/16/21 10:55	04/16/21 18:07	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	0.00028	1	04/16/21 10:53	04/16/21 18:06	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.00078	1	04/16/21 10:53	04/16/21 18:06	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00071	1	04/16/21 10:53	04/16/21 18:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/16/21 10:53	04/16/21 18:06	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	04/16/21 10:53	04/16/21 18:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/16/21 10:53	04/16/21 18:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/16/21 10:53	04/16/21 18:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/16/21 10:53	04/16/21 18:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/16/21 10:53	04/16/21 18:06	7439-92-1	
Lithium	0.0066J	mg/L	0.030	0.00081	1	04/16/21 10:53	04/16/21 18:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/16/21 10:53	04/16/21 18:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/16/21 10:53	04/16/21 18:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/16/21 10:53	04/16/21 18:06	7440-28-0	

7470 Mercury

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

Mercury	0.00018J	mg/L	0.00020	0.000078	1	04/26/21 15:15	04/27/21 09:59	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	96.0	mg/L	10.0	10.0	1		04/17/21 11:17		
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300.0 IC Anions 28 Days

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

Chloride	3.2	mg/L	1.0	0.60	1		04/20/21 01:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/20/21 01:26	16984-48-8	
Sulfate	1.3	mg/L	1.0	0.50	1		04/20/21 01:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT III & IV
 Pace Project No.: 92533252

Sample: B-117D **Lab ID: 92533252002** Collected: 04/14/21 12:35 Received: 04/14/21 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/27/21 16:31		
pH	6.06	Std. Units			1		04/27/21 16:31		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.8	mg/L	1.0	0.070	1	04/16/21 10:55	04/16/21 18:12	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/16/21 10:53	04/16/21 18:12	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.00078	1	04/16/21 10:53	04/16/21 18:12	7440-38-2	
Barium	0.048	mg/L	0.0050	0.00071	1	04/16/21 10:53	04/16/21 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/16/21 10:53	04/16/21 18:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	04/16/21 10:53	04/16/21 18:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/16/21 10:53	04/16/21 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/16/21 10:53	04/16/21 18:12	7440-47-3	
Cobalt	0.00079J	mg/L	0.0050	0.00038	1	04/16/21 10:53	04/16/21 18:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/16/21 10:53	04/16/21 18:12	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00081	1	04/16/21 10:53	04/16/21 18:12	7439-93-2	
Molybdenum	0.00081J	mg/L	0.010	0.00069	1	04/16/21 10:53	04/16/21 18:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/16/21 10:53	04/16/21 18:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/16/21 10:53	04/16/21 18:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/26/21 15:15	04/27/21 10:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	115	mg/L	10.0	10.0	1		04/21/21 21:44		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		04/20/21 02:11	16887-00-6	
Fluoride	0.056J	mg/L	0.10	0.050	1		04/20/21 02:11	16984-48-8	
Sulfate	11.7	mg/L	1.0	0.50	1		04/20/21 02:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT III & IV
 Pace Project No.: 92533252

Sample: B-118		Lab ID: 92533252003		Collected: 04/13/21 11:45		Received: 04/14/21 16:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/27/21 16:31		
pH	6.02	Std. Units			1		04/27/21 16:31		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	6.5	mg/L	1.0	0.070	1	04/16/21 10:55	04/16/21 18:17	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/16/21 10:53	04/16/21 18:18	7440-36-0	
Arsenic	0.00094J	mg/L	0.0050	0.00078	1	04/16/21 10:53	04/16/21 18:18	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00071	1	04/16/21 10:53	04/16/21 18:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/16/21 10:53	04/16/21 18:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	04/16/21 10:53	04/16/21 18:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/16/21 10:53	04/16/21 18:18	7440-43-9	
Chromium	0.00059J	mg/L	0.0050	0.00055	1	04/16/21 10:53	04/16/21 18:18	7440-47-3	
Cobalt	0.00090J	mg/L	0.0050	0.00038	1	04/16/21 10:53	04/16/21 18:18	7440-48-4	
Lead	0.00012J	mg/L	0.0010	0.000036	1	04/16/21 10:53	04/16/21 18:18	7439-92-1	
Lithium	0.0019J	mg/L	0.030	0.00081	1	04/16/21 10:53	04/16/21 18:18	7439-93-2	
Molybdenum	0.0056J	mg/L	0.010	0.00069	1	04/16/21 10:53	04/16/21 18:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/16/21 10:53	04/16/21 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/16/21 10:53	04/16/21 18:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/26/21 15:15	04/27/21 10:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	89.0	mg/L	10.0	10.0	1		04/17/21 11:17		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.2	mg/L	1.0	0.60	1		04/20/21 02:26	16887-00-6	
Fluoride	0.055J	mg/L	0.10	0.050	1		04/20/21 02:26	16984-48-8	
Sulfate	7.0	mg/L	1.0	0.50	1		04/20/21 02:26	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT III & IV
 Pace Project No.: 92533252

Sample: B-119D **Lab ID: 92533252004** Collected: 04/13/21 14:59 Received: 04/14/21 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/27/21 16:31		
pH	6.64	Std. Units			1		04/27/21 16:31		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	20.5	mg/L	1.0	0.070	1	04/16/21 10:55	04/16/21 18:21	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/16/21 10:53	04/16/21 18:24	7440-36-0	
Arsenic	0.0019J	mg/L	0.0050	0.00078	1	04/16/21 10:53	04/16/21 18:24	7440-38-2	
Barium	0.0087	mg/L	0.0050	0.00071	1	04/16/21 10:53	04/16/21 18:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/16/21 10:53	04/16/21 18:24	7440-41-7	
Boron	0.039J	mg/L	0.040	0.0052	1	04/16/21 10:53	04/16/21 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/16/21 10:53	04/16/21 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/16/21 10:53	04/16/21 18:24	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00038	1	04/16/21 10:53	04/16/21 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/16/21 10:53	04/16/21 18:24	7439-92-1	
Lithium	0.0045J	mg/L	0.030	0.00081	1	04/16/21 10:53	04/16/21 18:24	7439-93-2	
Molybdenum	0.027	mg/L	0.010	0.00069	1	04/16/21 10:53	04/16/21 18:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/16/21 10:53	04/16/21 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/16/21 10:53	04/16/21 18:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/26/21 15:15	04/27/21 10:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	229	mg/L	10.0	10.0	1		04/17/21 11:17		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.9	mg/L	1.0	0.60	1		04/20/21 02:41	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		04/20/21 02:41	16984-48-8	
Sulfate	82.2	mg/L	1.0	0.50	1		04/20/21 02:41	14808-79-8	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT III & IV
 Pace Project No.: 92533252

QC Batch: 614102 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92533252001, 92533252002, 92533252003, 92533252004

METHOD BLANK: 3232176 Matrix: Water
 Associated Lab Samples: 92533252001, 92533252002, 92533252003, 92533252004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	04/16/21 17:08	

LABORATORY CONTROL SAMPLE: 3232177

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: 3232178 3232179

Parameter	Units	3232178		3232179		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92533251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	ND	1	1	1.0	1.0	103	101	75-125	1	20

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT III & IV
 Pace Project No.: 92533252

QC Batch: 614104 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92533252001, 92533252002, 92533252003, 92533252004

METHOD BLANK: 3232186 Matrix: Water
 Associated Lab Samples: 92533252001, 92533252002, 92533252003, 92533252004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00035J	0.0030	0.00028	04/16/21 15:17	
Arsenic	mg/L	ND	0.0050	0.00078	04/16/21 15:17	
Barium	mg/L	ND	0.0050	0.00071	04/16/21 15:17	
Beryllium	mg/L	ND	0.00050	0.000046	04/16/21 15:17	
Boron	mg/L	ND	0.040	0.0052	04/16/21 15:17	
Cadmium	mg/L	ND	0.00050	0.00012	04/16/21 15:17	
Chromium	mg/L	ND	0.0050	0.00055	04/16/21 15:17	
Cobalt	mg/L	ND	0.0050	0.00038	04/16/21 15:17	
Lead	mg/L	ND	0.0010	0.000036	04/16/21 15:17	
Lithium	mg/L	ND	0.030	0.00081	04/16/21 15:17	
Molybdenum	mg/L	ND	0.010	0.00069	04/16/21 15:17	
Selenium	mg/L	ND	0.0050	0.0016	04/16/21 15:17	
Thallium	mg/L	ND	0.0010	0.00014	04/16/21 15:17	

LABORATORY CONTROL SAMPLE: 3232187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	114	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3232188 3232189

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92533251002	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	0.11	108	107	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.096	0.096	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT III & IV

Pace Project No.: 92533252

Parameter	Units	3232188		3232189		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92533251002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	0	20		
Boron	mg/L	ND	1	1	1.0	1.1	103	106	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20		
Chromium	mg/L	0.0012J	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT III & IV
 Pace Project No.: 92533252

QC Batch: 616179 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92533252001, 92533252002, 92533252003, 92533252004

METHOD BLANK: 3242691 Matrix: Water
 Associated Lab Samples: 92533252001, 92533252002, 92533252003, 92533252004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	04/27/21 09:54	

LABORATORY CONTROL SAMPLE: 3242692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3242693 3242694

Parameter	Units	3242693		3242694		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.00018J	0.0025	0.0024	0.0025	87	94	75-125	7	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT III & IV
 Pace Project No.: 92533252

QC Batch: 614467 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: 92533252001, 92533252003, 92533252004

METHOD BLANK: 3233904 Matrix: Water
 Associated Lab Samples: 92533252001, 92533252003, 92533252004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/17/21 11:16	

LABORATORY CONTROL SAMPLE: 3233905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	90-111	

SAMPLE DUPLICATE: 3233906

Parameter	Units	92533049005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	68.0	43.0	45	10	D6

SAMPLE DUPLICATE: 3233907

Parameter	Units	92533252004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	229	256	11	10	D6

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT III & IV

Pace Project No.: 92533252

QC Batch:	615202	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: 92533252002

METHOD BLANK: 3237449 Matrix: Water

Associated Lab Samples: 92533252002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/21/21 21:42	

LABORATORY CONTROL SAMPLE: 3237450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	403	101	90-111	

SAMPLE DUPLICATE: 3237451

Parameter	Units	92533049012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	51.0	64.0	23	10	D6

SAMPLE DUPLICATE: 3237452

Parameter	Units	92533275001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	13800	17100	21	10	D6

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT III & IV

Pace Project No.: 92533252

QC Batch: 614679 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: 92533252001, 92533252002, 92533252003, 92533252004

METHOD BLANK: 3234945 Matrix: Water
 Associated Lab Samples: 92533252001, 92533252002, 92533252003, 92533252004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/19/21 21:27	
Fluoride	mg/L	ND	0.10	0.050	04/19/21 21:27	
Sulfate	mg/L	ND	1.0	0.50	04/19/21 21:27	

LABORATORY CONTROL SAMPLE: 3234946

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	2.3	93	90-110	
Sulfate	mg/L	50	47.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3234947 3234948

Parameter	Units	92533709002		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	5.4	50	50	56.0	55.8	101	101	90-110	0	10		
Fluoride	mg/L	0.81	2.5	2.5	3.1	3.1	92	91	90-110	0	10		
Sulfate	mg/L	21.9	50	50	72.6	72.2	101	101	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3234949 3234950

Parameter	Units	92533252001		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	3.2	50	50	52.3	54.8	98	103	90-110	5	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	97	102	90-110	5	10		
Sulfate	mg/L	1.3	50	50	50.2	52.7	98	103	90-110	5	10		

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QUALIFIERS

Project: MCDONOUGH UPGRADIENT III & IV

Pace Project No.: 92533252

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT III & IV
 Pace Project No.: 92533252

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92533252001	B-116D				
92533252002	B-117D				
92533252003	B-118				
92533252004	B-119D				
92533252001	B-116D	EPA 3010A	614102	EPA 6010D	614291
92533252002	B-117D	EPA 3010A	614102	EPA 6010D	614291
92533252003	B-118	EPA 3010A	614102	EPA 6010D	614291
92533252004	B-119D	EPA 3010A	614102	EPA 6010D	614291
92533252001	B-116D	EPA 3005A	614104	EPA 6020B	614308
92533252002	B-117D	EPA 3005A	614104	EPA 6020B	614308
92533252003	B-118	EPA 3005A	614104	EPA 6020B	614308
92533252004	B-119D	EPA 3005A	614104	EPA 6020B	614308
92533252001	B-116D	EPA 7470A	616179	EPA 7470A	616408
92533252002	B-117D	EPA 7470A	616179	EPA 7470A	616408
92533252003	B-118	EPA 7470A	616179	EPA 7470A	616408
92533252004	B-119D	EPA 7470A	616179	EPA 7470A	616408
92533252001	B-116D	SM 2540C-2011	614467		
92533252002	B-117D	SM 2540C-2011	615202		
92533252003	B-118	SM 2540C-2011	614467		
92533252004	B-119D	SM 2540C-2011	614467		
92533252001	B-116D	EPA 300.0 Rev 2.1 1993	614679		
92533252002	B-117D	EPA 300.0 Rev 2.1 1993	614679		
92533252003	B-118	EPA 300.0 Rev 2.1 1993	614679		
92533252004	B-119D	EPA 300.0 Rev 2.1 1993	614679		

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

Document Revised: October 28, 2020
Page 1 of 3
Issuing Authority:
Pace Carolina Quality Office

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta

WO#: 92533252

Client Name:

GA Power

Project #:



Source: Fed Ex UPS USPS Other
 Commercial Pace Other

Body Seal Present? Yes No Seals Intact? Yes No

Date/Initial Person Examining Contents: 4/14/26 JH

Packaging Material: Bubble Wrap Bubble Bags None Other

Biological Sample Frozen? Yes No N/A

Temperature: On Ice: 233 Type of Ice: Plain Blue None

Cooler Temp: -3.4 Correction Factor: Add/Subtract (°C) -0.2

Temp should be above freezing to 5°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.2

HDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, HI, 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.	
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 type="checkbox"/> Yes <input checked="" 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:	W		
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 Curbody 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: _____



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

Project #

W0#: 92533252

PH: KLM

Due Date: 04/28/21

Exceptions: VOA, Coliform, TOC, Oil and Grease, BPO/BOSS (excludes COC, L&G)

CLIENT: CR-CR Power

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

Sample ID	Analysis	1	2	3	4	5	6	7	8	9	10	11	12
1000-100 ml Phosphate (P) (P)	1000-100 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-250 ml Phosphate (P) (P)	1000-250 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-500 ml Phosphate (P) (P)	1000-500 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1 liter Phosphate (P) (P)	1000-1 liter Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P) (P)	1000-1.25 ml Phosphate (P) (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-250 ml Phosphate (P) (P)	1000-250 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/
1000-1.25 ml Phosphate (P) (P)	1000-1.25 ml Phosphate (P) (P)	/	/	/	/	/	/	/	/	/	/	/	/

BCN

2-21-11

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 activities, a copy of this form will be sent to the North Carolina DNMR Certification Office (404 Out of State, incorrect preservative, out of temp, incorrect containers)



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

Page: 1 of 1

Section 1: Request Information Agency: <input type="text"/> Requesting Agency: <input type="text"/> Requester: <input type="text"/> Request Date: <input type="text"/> Requested Item: <input type="text"/> Requested By: <input type="text"/> Requested For: <input type="text"/> Requested On: <input type="text"/>	Section 2: Request Description Request Description: <input type="text"/> Requested Quantity: <input type="text"/> Requested Location: <input type="text"/>	Section 3: Request Status Request Status: <input type="text"/> Requested By: <input type="text"/> Requested On: <input type="text"/>
--	--	--

Item #	Sample ID	Description	Quantity	Unit	Date	Time	Signature	Title	Agency	Phone	Fax	Email	Comments	Analysis Test			Total Observed Tests (TOT)
														Y/N	Y/N	Y/N	
1	B-100	SAMPLE ID	1	g	4/20/19	12:35	[Signature]	[Title]	[Agency]	[Phone]	[Fax]	[Email]					6-06
2	B-100		1	g	4/20/19	12:35	[Signature]	[Title]	[Agency]	[Phone]	[Fax]	[Email]					6-06
3	B-100		1	g	4/20/19	12:35	[Signature]	[Title]	[Agency]	[Phone]	[Fax]	[Email]					6-02
4	B-100		1	g	4/20/19	12:35	[Signature]	[Title]	[Agency]	[Phone]	[Fax]	[Email]					6-04
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Total # of Items: <input type="text"/>	Total # of Tests: <input type="text"/>
Received by: <input type="text"/>	Date: <input type="text"/>
Signature: <input type="text"/>	Title: <input type="text"/>
Agency: <input type="text"/>	Phone: <input type="text"/>
Fax: <input type="text"/>	Email: <input type="text"/>

May 10, 2021

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

RE: Project: MCDONOUGH UPGRADIENT RADS
Pace Project No.: 92533248

Dear Joju Abraham:

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



Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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.: 92533248

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 UPGRADIENT RADS
Pace Project No.: 92533248

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92533248001	B-116D	Water	04/13/21 15:15	04/14/21 16:00
92533248002	B-117D	Water	04/14/21 12:35	04/14/21 16:00
92533248003	B-118	Water	04/13/21 11:45	04/14/21 16:00
92533248004	B-119D	Water	04/13/21 14:59	04/14/21 16:00

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92533248

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92533248001	B-116D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92533248002	B-117D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92533248003	B-118	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92533248004	B-119D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92533248

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-116D Lab ID: 92533248001 Collected: 04/13/21 15:15 Received: 04/14/21 16:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0948 ± 0.0993 (0.183) C:88% T:NA	pCi/L	05/05/21 19:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.410 ± 0.510 (1.09) C:76% T:78%	pCi/L	05/07/21 12:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.505 ± 0.609 (1.27)	pCi/L	05/07/21 16:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92533248

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-117D Lab ID: 92533248002 Collected: 04/14/21 12:35 Received: 04/14/21 16:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.528 ± 0.170 (0.199) C:78% T:NA	pCi/L	05/05/21 19:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.668 ± 0.498 (0.993) C:73% T:81%	pCi/L	05/07/21 12:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20 ± 0.668 (1.19)	pCi/L	05/07/21 16:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92533248

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-118 Lab ID: 92533248003 Collected: 04/13/21 11:45 Received: 04/14/21 16:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.210 ± 0.113 (0.175) C:85% T:NA	pCi/L	05/05/21 19:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.738 ± 0.477 (0.923) C:74% T:85%	pCi/L	05/07/21 12:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.948 ± 0.590 (1.10)	pCi/L	05/07/21 16:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92533248

Sample: B-119D **Lab ID: 92533248004** Collected: 04/13/21 14:59 Received: 04/14/21 16:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.118 ± 0.101 (0.179) C:80% T:NA	pCi/L	05/05/21 19:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.786 ± 0.541 (1.07) C:76% T:78%	pCi/L	05/07/21 12:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.904 ± 0.642 (1.25)	pCi/L	05/07/21 16:36	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92533248

QC Batch: 445345	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92533248001, 92533248002, 92533248003, 92533248004

METHOD BLANK: 2149728 Matrix: Water

Associated Lab Samples: 92533248001, 92533248002, 92533248003, 92533248004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.120 ± 0.0920 (0.158) C:89% T:NA	pCi/L	05/05/21 19:49	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92533248

QC Batch:	445317	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92533248001, 92533248002, 92533248003, 92533248004

METHOD BLANK: 2149685 Matrix: Water

Associated Lab Samples: 92533248001, 92533248002, 92533248003, 92533248004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.310 ± 0.354 (0.744) C:75% T:85%	pCi/L	05/07/21 12:15	

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.: 92533248

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.

REPORT OF LABORATORY ANALYSIS

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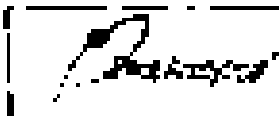
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT RADS
Pace Project No.: 92533248

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92533248001	B-116D	EPA 9315	445345		
92533248002	B-117D	EPA 9315	445345		
92533248003	B-118	EPA 9315	445345		
92533248004	B-119D	EPA 9315	445345		
92533248001	B-116D	EPA 9320	445317		
92533248002	B-117D	EPA 9320	445317		
92533248003	B-118	EPA 9320	445317		
92533248004	B-119D	EPA 9320	445317		
92533248001	B-116D	Total Radium Calculation	447070		
92533248002	B-117D	Total Radium Calculation	447070		
92533248003	B-118	Total Radium Calculation	447070		
92533248004	B-119D	Total Radium Calculation	447070		

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Document Number
 Sample No: 01816 (see Worksheet 05004)
 COLUMBIA
 FORM 05-001 Rev 07

Document Revised October 23, 2020
 Page 1 of 1
 Issued By: [Name]
 Page Expiration Date: 01/01/22

Inventory receiving samples:

Asphalt Edin Greenwood Huntersville Raleigh West-Charlotte Winston-Salem Knoxville

Client Name: 6 to Power
 Counter: Trade Other Other
 General

NO# : 92533248

Medical Record? Yes No

DATE RECEIVED: 11/19/20

Jobing Material: 20-20-20 10-10-10 5-5-5 Other
 Name: Asa 231 Type: Other New Old

Quantity: 100 50 25

Order Date: 3-4 Section Name: ADD. BULK 102

Tray should be covered to be Yes No

Temp: 3.2
 SCN # (if any): Yes No

NO# (if any): Yes No

Item	QTY	UNIT	DATE	TIME
10-10-10	10	lb	11/19/20	10:00
5-5-5	10	lb	11/19/20	10:00
20-20-20	10	lb	11/19/20	10:00
10-10-10	10	lb	11/19/20	10:00
5-5-5	10	lb	11/19/20	10:00
20-20-20	10	lb	11/19/20	10:00
10-10-10	10	lb	11/19/20	10:00
5-5-5	10	lb	11/19/20	10:00
20-20-20	10	lb	11/19/20	10:00
10-10-10	10	lb	11/19/20	10:00
5-5-5	10	lb	11/19/20	10:00
20-20-20	10	lb	11/19/20	10:00
10-10-10	10	lb	11/19/20	10:00
5-5-5	10	lb	11/19/20	10:00
20-20-20	10	lb	11/19/20	10:00

Comments: See Worksheet 05004

Signature: _____ Date: _____

Project Manager: SCM 11/19/20

12

CHARTER OF CONSTITUTION (Administrative Requirements) Department
for Charter Schools to use for their own purposes. It is not to be distributed to external stakeholders.

Page 1 of 16

Charter School Name: _____ School Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Fax: _____ Website: _____	School Year: _____ Start Date: _____ End Date: _____	School Type: _____ School Level: _____ School Status: _____	School ID: _____ School Code: _____
---	--	---	--

Item #	Item Description	Quantity	Unit Price	Total Price	Notes
1	Support for...				
2	Support for...				
3	Support for...				
4	Support for...				
5	Support for...				
6	Support for...				
7	Support for...				
8	Support for...				
9	Support for...				
10	Support for...				
11	Support for...				
12	Support for...				
13	Support for...				
14	Support for...				
15	Support for...				
16	Support for...				
17	Support for...				
18	Support for...				
19	Support for...				
20	Support for...				
21	Support for...				
22	Support for...				
23	Support for...				
24	Support for...				
25	Support for...				
26	Support for...				
27	Support for...				
28	Support for...				
29	Support for...				
30	Support for...				
31	Support for...				
32	Support for...				
33	Support for...				
34	Support for...				
35	Support for...				
36	Support for...				
37	Support for...				
38	Support for...				
39	Support for...				
40	Support for...				
41	Support for...				
42	Support for...				
43	Support for...				
44	Support for...				
45	Support for...				
46	Support for...				
47	Support for...				
48	Support for...				
49	Support for...				
50	Support for...				

Total Price: _____
 Total Quantity: _____
 Total Unit Price: _____
 Total Total Price: _____

Quality Control Sample Performance Assessment

Department of Defense - Defense Acquisition Regulation

Date: 10/10/2010
 Time: 10:00 AM
 Location: [Blank]

Item	Quantity	Unit
1. [Blank]	100	EA
2. [Blank]	100	EA
3. [Blank]	100	EA
4. [Blank]	100	EA
5. [Blank]	100	EA
6. [Blank]	100	EA
7. [Blank]	100	EA
8. [Blank]	100	EA
9. [Blank]	100	EA
10. [Blank]	100	EA

Item	Quantity	Unit
1. [Blank]	100	EA
2. [Blank]	100	EA
3. [Blank]	100	EA
4. [Blank]	100	EA
5. [Blank]	100	EA
6. [Blank]	100	EA
7. [Blank]	100	EA
8. [Blank]	100	EA
9. [Blank]	100	EA
10. [Blank]	100	EA

Item	Quantity	Unit
1. [Blank]	100	EA
2. [Blank]	100	EA
3. [Blank]	100	EA
4. [Blank]	100	EA
5. [Blank]	100	EA
6. [Blank]	100	EA
7. [Blank]	100	EA
8. [Blank]	100	EA
9. [Blank]	100	EA
10. [Blank]	100	EA

Item	Quantity	Unit
1. [Blank]	100	EA
2. [Blank]	100	EA
3. [Blank]	100	EA
4. [Blank]	100	EA
5. [Blank]	100	EA
6. [Blank]	100	EA
7. [Blank]	100	EA
8. [Blank]	100	EA
9. [Blank]	100	EA
10. [Blank]	100	EA

Item	Quantity	Unit
1. [Blank]	100	EA
2. [Blank]	100	EA
3. [Blank]	100	EA
4. [Blank]	100	EA
5. [Blank]	100	EA
6. [Blank]	100	EA
7. [Blank]	100	EA
8. [Blank]	100	EA
9. [Blank]	100	EA
10. [Blank]	100	EA

Item	Quantity	Unit
1. [Blank]	100	EA
2. [Blank]	100	EA
3. [Blank]	100	EA
4. [Blank]	100	EA
5. [Blank]	100	EA
6. [Blank]	100	EA
7. [Blank]	100	EA
8. [Blank]	100	EA
9. [Blank]	100	EA
10. [Blank]	100	EA

All quantities are based on the quantity of items in the lot. If the lot is not a single lot, the quantity of items in the lot should be indicated in the lot description.

Date: 10/10/2010
 Time: 10:00 AM

Signature: [Blank]

Quality Control Sample Performance Assessment

Handwritten signature

Page: 1 of 1
 Date: 10/10/13
 Time: 10:00 AM

Academic Performance Assessment Program - 10/10/13

Item	Score	Comments
1. Accuracy of data entry	100%	
2. Completeness of data	100%	
3. Timeliness of data	100%	
4. Consistency of data	100%	

Item	Score	Comments
5. Accuracy of data entry	100%	
6. Completeness of data	100%	
7. Timeliness of data	100%	
8. Consistency of data	100%	

Item	Score	Comments
9. Accuracy of data entry	100%	
10. Completeness of data	100%	
11. Timeliness of data	100%	
12. Consistency of data	100%	

Item	Score	Comments
13. Accuracy of data entry	100%	
14. Completeness of data	100%	
15. Timeliness of data	100%	
16. Consistency of data	100%	

Item	Score	Comments
17. Accuracy of data entry	100%	
18. Completeness of data	100%	
19. Timeliness of data	100%	
20. Consistency of data	100%	

Item	Score	Comments
21. Accuracy of data entry	100%	
22. Completeness of data	100%	
23. Timeliness of data	100%	
24. Consistency of data	100%	

10/10/13 10:00 AM

Page 1 of 1

April 28, 2021

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

RE: Project: MCDONOUGH UPGRADIENT IONS
Pace Project No.: 92533258

Dear Joju Abraham:

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



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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 IONS

Pace Project No.: 92533258

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT IONS

Pace Project No.: 92533258

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92533258001	B-116D	Water	04/13/21 15:15	04/14/21 16:00
92533258002	B-117D	Water	04/14/21 12:35	04/14/21 16:00
92533258003	B-118	Water	04/13/21 11:45	04/14/21 16:00
92533258004	B-119D	Water	04/13/21 14:54	04/14/21 16:00

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT IONS

Pace Project No.: 92533258

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92533258001	B-116D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92533258002	B-117D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92533258003	B-118	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92533258004	B-119D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	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 IONS

Pace Project No.: 92533258

Sample: B-116D **Lab ID: 92533258001** Collected: 04/13/21 15:15 Received: 04/14/21 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/27/21 16:32		
pH	6.06	Std. Units			1		04/27/21 16:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.0	mg/L	0.20	0.056	1	04/16/21 10:55	04/16/21 18:07	7440-09-7	
Sodium	8.2	mg/L	1.0	0.26	1	04/16/21 10:55	04/16/21 18:07	7440-23-5	
Magnesium	3.7	mg/L	0.050	0.0076	1	04/16/21 10:55	04/16/21 18:07	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	57.0	mg/L	5.0	5.0	1		04/26/21 19:10		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		04/26/21 19:10		
Alkalinity, Total as CaCO ₃	57.0	mg/L	5.0	5.0	1		04/26/21 19:10		

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT IONS

Pace Project No.: 92533258

Sample: B-117D **Lab ID: 92533258002** Collected: 04/14/21 12:35 Received: 04/14/21 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/27/21 16:32		
pH	6.06	Std. Units			1		04/27/21 16:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.6	mg/L	0.20	0.056	1	04/16/21 10:55	04/16/21 18:12	7440-09-7	
Sodium	13.8	mg/L	1.0	0.26	1	04/16/21 10:55	04/16/21 18:12	7440-23-5	
Magnesium	1.6	mg/L	0.050	0.0076	1	04/16/21 10:55	04/16/21 18:12	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	48.5	mg/L	5.0	5.0	1		04/27/21 17:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/27/21 17:59		
Alkalinity, Total as CaCO3	48.5	mg/L	5.0	5.0	1		04/27/21 17:59		

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT IONS

Pace Project No.: 92533258

Sample: B-118 **Lab ID: 92533258003** Collected: 04/13/21 11:45 Received: 04/14/21 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/27/21 16:32		
pH	6.02	Std. Units			1		04/27/21 16:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.3	mg/L	0.20	0.056	1	04/16/21 10:55	04/16/21 18:17	7440-09-7	
Sodium	12.3	mg/L	1.0	0.26	1	04/16/21 10:55	04/16/21 18:17	7440-23-5	
Magnesium	2.4	mg/L	0.050	0.0076	1	04/16/21 10:55	04/16/21 18:17	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	40.1	mg/L	5.0	5.0	1		04/26/21 19:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/26/21 19:17		
Alkalinity, Total as CaCO3	40.1	mg/L	5.0	5.0	1		04/26/21 19:17		

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ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT IONS

Pace Project No.: 92533258

Sample: B-119D **Lab ID: 92533258004** Collected: 04/13/21 14:54 Received: 04/14/21 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/27/21 16:32		
pH	6.64	Std. Units			1		04/27/21 16:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.9	mg/L	0.20	0.056	1	04/16/21 10:55	04/16/21 18:21	7440-09-7	
Sodium	44.7	mg/L	1.0	0.26	1	04/16/21 10:55	04/16/21 18:21	7440-23-5	
Magnesium	5.0	mg/L	0.050	0.0076	1	04/16/21 10:55	04/16/21 18:21	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	77.1	mg/L	5.0	5.0	1		04/26/21 19:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/26/21 19:24		
Alkalinity, Total as CaCO3	77.1	mg/L	5.0	5.0	1		04/26/21 19:24		

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QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT IONS
 Pace Project No.: 92533258

QC Batch: 614102 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92533258001, 92533258002, 92533258003, 92533258004

METHOD BLANK: 3232176 Matrix: Water
 Associated Lab Samples: 92533258001, 92533258002, 92533258003, 92533258004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	ND	0.050	0.0076	04/16/21 17:08	
Potassium	mg/L	ND	0.20	0.056	04/16/21 17:08	
Sodium	mg/L	ND	1.0	0.26	04/16/21 17:08	

LABORATORY CONTROL SAMPLE: 3232177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3232178 3232179

Parameter	Units	92533251001		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result								% Rec	% Rec
Magnesium	mg/L	ND	1	1	1	1.0	1.0	102	101	75-125	1	20		
Potassium	mg/L	ND	1	1	1	1.0	0.99	105	99	75-125	5	20		
Sodium	mg/L	ND	1	1	1	0.99J	0.97J	99	97	75-125		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 UPGRADIENT IONS
 Pace Project No.: 92533258

QC Batch: 616118 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92533258001, 92533258003, 92533258004

METHOD BLANK: 3242301 Matrix: Water
 Associated Lab Samples: 92533258001, 92533258003, 92533258004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	04/26/21 15:01	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	04/26/21 15:01	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	04/26/21 15:01	

LABORATORY CONTROL SAMPLE: 3242302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.6	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3242303 3242304

Parameter	Units	92533456001		3242304		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Alkalinity, Total as CaCO3	mg/L	799	50	827	50	57	50	80-120	0	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3242307 3242308

Parameter	Units	92533344004		3242308		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Alkalinity, Total as CaCO3	mg/L	568	50	604	50	72	117	80-120	4	25	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 UPGRADIENT IONS
 Pace Project No.: 92533258

QC Batch: 616418 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92533258002

METHOD BLANK: 3243745 Matrix: Water
 Associated Lab Samples: 92533258002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	04/27/21 17:08	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	04/27/21 17:08	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	04/27/21 17:08	

LABORATORY CONTROL SAMPLE: 3243746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3243747 3243748

Parameter	Units	92533574001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	90.0	50	50	138	140	96	100	80-120	1	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3243749 3243750

Parameter	Units	92533574006		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	142	50	50	203	199	120	114	80-120	2	25		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH UPGRADIENT IONS

Pace Project No.: 92533258

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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 IONS
Pace Project No.: 92533258

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92533258001	B-116D				
92533258002	B-117D				
92533258003	B-118				
92533258004	B-119D				
92533258001	B-116D	EPA 3010A	614102	EPA 6010D	614291
92533258002	B-117D	EPA 3010A	614102	EPA 6010D	614291
92533258003	B-118	EPA 3010A	614102	EPA 6010D	614291
92533258004	B-119D	EPA 3010A	614102	EPA 6010D	614291
92533258001	B-116D	SM 2320B-2011	616118		
92533258002	B-117D	SM 2320B-2011	616418		
92533258003	B-118	SM 2320B-2011	616118		
92533258004	B-119D	SM 2320B-2011	616118		

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

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Face Carolina's Quality Office

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Client Name:
GA Power

Project ID: **WO# : 92533258**



Carrier: Fed Ex UPS USPS Other
 Commercial Face Other

Date/Initials Person Examining Contents: 4/19/24 CMH

Study Seal Present? Yes No Seals Intact? Yes No

Sealing Material: Bubble Wrap Bubble Bags None Other

Biological Sample Frozen? Yes No N/A

Thermometer: COC ID: 233 Type of Ice: Ice Dry Ice None

Cooler Temp: 3.4 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): 3.2

ISO Regulated Soil? N/A, water sample

Do samples originate in a quarantine zone within the United States: CA, HI, or SC (check mark)? Yes No

Do samples originate from a foreign source (irrespective of 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.	
-Face Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis (Samples Field Filtered)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Subject Data/Time/ID/Analysis Matrix <u>W</u>			
Headspace in VOA Vials (>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 SRI Review: _____ 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, TOC, Oil and Grease, OPD/SP15 (water), DOC, etc.

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

Project # **WO#: 92533258**

PN: KLH1

Due Date: 04/28/21

CLIENT: GR-GR Power

Brand	Sample ID	Volume	Preservative	Retention Time	Temperature	Sample Date	Time of Day	Location	Operator	Notes
	AP001-15 ml, Plastic	15	Unpreserved (N/A) (PH)							
	AP001-250 ml, Plastic	250	Unpreserved (N/A)							
	AP002-500 ml, Plastic	500	Unpreserved (N/A)							
	AP101 1 liter Poly-carb	1000	Unpreserved (N/A)							
	AP015-125 ml, Plastic	125	RO/SD (PH < 7) (CH)							
	AP016-250 ml, Plastic	250	RO/SD (PH < 7)							
	AP017-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP018-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP019-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP020-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP021-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP022-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP023-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP024-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP025-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP026-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP027-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP028-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP029-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP030-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP031-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP032-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP033-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP034-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP035-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP036-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP037-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP038-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP039-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP040-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP041-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP042-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP043-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP044-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP045-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP046-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP047-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP048-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP049-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP050-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP051-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP052-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP053-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP054-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP055-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP056-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP057-125 ml, Plastic	125	RO/SD (PH < 7)							
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	AP064-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP065-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP066-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP067-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP068-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP069-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP070-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP071-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP072-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP073-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP074-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP075-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP076-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP077-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP078-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP079-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP080-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP081-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP082-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP083-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP084-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP085-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP086-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP087-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP088-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP089-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP090-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP091-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP092-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP093-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP094-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP095-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP096-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP097-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP098-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP099-125 ml, Plastic	125	RO/SD (PH < 7)							
	AP100-125 ml, Plastic	125	RO/SD (PH < 7)							

BRIN
WATER

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, a copy of this form will be sent to the North Carolina DNR Certification Office (i.e. Out of Range, incorrect preservation, out of temp, insured containers)



CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-Of-Custody is a LEGAL DOCUMENT. All relevant data must be completed accurately.

Section 1: Requester Information
Section 2: Analytical Request Information
Section 3: Sample Information

Requester Name	Requester Title	Requester Department	Requester Phone
Requester Email	Requester Address	Requester City	Requester State
Requester Zip	Requester Fax	Requester Filing Office	Requester Agency
Requester Case No.	Requester Case Description	Requester Case Reference	Requester Case Status
Requester Case Date	Requester Case Location	Requester Case Incident	Requester Case Priority

Page: 1 of 1

ITEM #	DESCRIPTION	DATE RECEIVED	DATE ANALYZED	ANALYST	LAB	STATUS	REMARKS	CHAIN OF CUSTODY
1	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
2	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
3	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
4	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
5	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
6	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
7	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
8	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
9	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
10	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
11	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
12	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
13	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
14	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
15	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
16	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
17	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
18	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
19	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
20	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
21	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
22	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
23	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
24	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		
25	SAMPLE ID: 100-100-100-100	10/10/10	10/10/10	ANALYST	LAB	COMPLETED		

TEST REPORT

Requested by: (Name)
Requested by: (Title)
Requested by: (Address)
Requested by: (City)
Requested by: (State)
Requested by: (Zip)

April 30, 2021

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

RE: Project: MCDONOUGH AP-234 IONS
Pace Project No.: 92533259

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between April 14, 2021 and April 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: 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-234 IONS
Pace Project No.: 92533259

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: MCDONOUGH AP-234 IONS

Pace Project No.: 92533259

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92533259001	B-115D	Water	04/14/21 13:00	04/14/21 16:00
92533259002	B-120D	Water	04/15/21 11:27	04/16/21 13:15

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234 IONS

Pace Project No.: 92533259

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92533259001	B-115D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	3
92533259002	B-120D	EPA 6010D	DRB	3
		SM 2320B-2011	ECH	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-234 IONS

Pace Project No.: 92533259

Sample: B-115D **Lab ID: 92533259001** Collected: 04/14/21 13:00 Received: 04/14/21 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/15/21 09:23		
pH	4.80	Std. Units			1		04/15/21 09:23		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	9.1	mg/L	0.20	0.056	1	04/16/21 10:55	04/16/21 18:26	7440-09-7	
Sodium	18.7	mg/L	1.0	0.26	1	04/16/21 10:55	04/16/21 18:26	7440-23-5	
Magnesium	16.6	mg/L	0.050	0.0076	1	04/16/21 10:55	04/16/21 18:26	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/27/21 18:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/27/21 18:08		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		04/27/21 18:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234 IONS

Pace Project No.: 92533259

Sample: B-120D **Lab ID: 92533259002** Collected: 04/15/21 11:27 Received: 04/16/21 13:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/16/21 14:36		
pH	5.46	Std. Units			1		04/16/21 14:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	11.4	mg/L	0.20	0.056	1	04/20/21 11:05	04/22/21 00:00	7440-09-7	
Sodium	38.8	mg/L	1.0	0.26	1	04/20/21 11:05	04/22/21 00:00	7440-23-5	
Magnesium	35.7	mg/L	0.050	0.0076	1	04/20/21 11:05	04/22/21 00:00	7439-95-4	
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	52.2	mg/L	5.0	5.0	1		04/28/21 18:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/28/21 18:22		
Alkalinity, Total as CaCO3	52.2	mg/L	5.0	5.0	1		04/28/21 18:22		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 IONS

Pace Project No.: 92533259

QC Batch: 614102	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92533259001

METHOD BLANK: 3232176 Matrix: Water

Associated Lab Samples: 92533259001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	ND	0.050	0.0076	04/16/21 17:08	
Potassium	mg/L	ND	0.20	0.056	04/16/21 17:08	
Sodium	mg/L	ND	1.0	0.26	04/16/21 17:08	

LABORATORY CONTROL SAMPLE: 3232177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3232178 3232179

Parameter	Units	3232178		3232179		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92533251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Magnesium	mg/L	ND	1	1	1.0	1.0	102	101	75-125	1	20
Potassium	mg/L	ND	1	1	1.0	0.99	105	99	75-125	5	20
Sodium	mg/L	ND	1	1	0.99J	0.97J	99	97	75-125		20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 IONS

Pace Project No.: 92533259

QC Batch:	614871	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92533259002

METHOD BLANK: 3235675 Matrix: Water

Associated Lab Samples: 92533259002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Magnesium	mg/L	0.0078J	0.050	0.0076	04/21/21 23:26	
Potassium	mg/L	ND	0.20	0.056	04/21/21 23:26	
Sodium	mg/L	ND	1.0	0.26	04/21/21 23:26	

LABORATORY CONTROL SAMPLE: 3235676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3235677 3235678

Parameter	Units	92533757001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Magnesium	mg/L	9040 ug/L	1	9.7	9.7	67	70	75-125	0	20	M1	
Potassium	mg/L	586 ug/L	1	1.6	1.6	105	104	75-125	1	20		
Sodium	mg/L	6150 ug/L	1	7.0	7.0	86	86	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.

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 IONS
 Pace Project No.: 92533259

QC Batch: 616418 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92533259001

METHOD BLANK: 3243745 Matrix: Water
 Associated Lab Samples: 92533259001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	04/27/21 17:08	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	04/27/21 17:08	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	04/27/21 17:08	

LABORATORY CONTROL SAMPLE: 3243746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3243747 3243748

Parameter	Units	92533574001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	90.0	50	50	138	140	96	100	80-120	1	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3243749 3243750

Parameter	Units	92533574006		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	142	50	50	203	199	120	114	80-120	2	25		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 IONS
 Pace Project No.: 92533259

QC Batch: 616419 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92533259002

METHOD BLANK: 3243751 Matrix: Water
 Associated Lab Samples: 92533259002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	04/28/21 14:42	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	04/28/21 14:42	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	04/28/21 14:42	

LABORATORY CONTROL SAMPLE: 3243752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3243753 3243754

Parameter	Units	92533974007		3243754		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	424	50	50	471	484	94	119	80-120	3	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3243755 3243756

Parameter	Units	92533634002		3243756		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	405	50	50	445	462	79	113	80-120	4	25 M1

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QUALIFIERS

Project: MCDONOUGH AP-234 IONS

Pace Project No.: 92533259

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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 AP-234 IONS
Pace Project No.: 92533259

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92533259001	B-115D				
92533259002	B-120D				
92533259001	B-115D	EPA 3010A	614102	EPA 6010D	614291
92533259002	B-120D	EPA 3010A	614871	EPA 6010D	614918
92533259001	B-115D	SM 2320B-2011	616418		
92533259002	B-120D	SM 2320B-2011	616419		

REPORT OF LABORATORY ANALYSIS

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2205204021

Document ID: 2205204021
Sample Name: [unclear]
Date: [unclear]

Geopage Ref: 2205204021
Page 1 of 2
Date: [unclear]

Laboratory receiving samples:

Adhesive Idri Greenwood Humberdale Ripley [unclear]

WO#: 92533259

Client: [unclear]

Quantity: 5-A [unclear]

Project: [unclear]

Order: [unclear]

Method: [unclear]

Weight: [unclear]

Analysis: [unclear]

Weight: [unclear]

Order: [unclear]

Order: [unclear]

Weight: [unclear]

Order: [unclear]

Order: [unclear]

Order: [unclear]

Weight: [unclear]

Order	Quantity	Unit	Price	Total
Order 1	1	kg	10.00	10.00
Order 2	1	kg	10.00	10.00
Order 3	1	kg	10.00	10.00
Order 4	1	kg	10.00	10.00
Order 5	1	kg	10.00	10.00
Order 6	1	kg	10.00	10.00
Order 7	1	kg	10.00	10.00
Order 8	1	kg	10.00	10.00
Order 9	1	kg	10.00	10.00
Order 10	1	kg	10.00	10.00
Order 11	1	kg	10.00	10.00
Order 12	1	kg	10.00	10.00
Order 13	1	kg	10.00	10.00
Order 14	1	kg	10.00	10.00
Order 15	1	kg	10.00	10.00
Order 16	1	kg	10.00	10.00
Order 17	1	kg	10.00	10.00
Order 18	1	kg	10.00	10.00
Order 19	1	kg	10.00	10.00
Order 20	1	kg	10.00	10.00
Order 21	1	kg	10.00	10.00
Order 22	1	kg	10.00	10.00
Order 23	1	kg	10.00	10.00
Order 24	1	kg	10.00	10.00
Order 25	1	kg	10.00	10.00
Order 26	1	kg	10.00	10.00
Order 27	1	kg	10.00	10.00
Order 28	1	kg	10.00	10.00
Order 29	1	kg	10.00	10.00
Order 30	1	kg	10.00	10.00

Comments: [unclear]

Order: [unclear]

Order: [unclear]

Order: [unclear]

Order: [unclear]

CHAPTER OF UNIVERSITY Analytical Request Document
 Form created in 2012, revised in 2014 based on the current program

Page: 1

Section	Requester's Information	Requester's Institution	Requester's Department	Requester's Contact Information	Requester's Signature	Requester's Date
<p>1. Sample Information</p> <p>Sample ID: _____</p> <p>Sample Description: _____</p> <p>Sample Source: _____</p> <p>Sample Quantity: _____</p>						
<p>2. Analytical Request Information</p> <p>Analytical Method: _____</p> <p>Instrument: _____</p> <p>Method Reference: _____</p> <p>Priority: _____</p>						
<p>3. Requester's Information</p> <p>Name: _____</p> <p>Address: _____</p> <p>City: _____</p> <p>State: _____</p> <p>Zip: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> <p>Email: _____</p>						
<p>4. Requester's Institution</p> <p>Institution Name: _____</p> <p>Address: _____</p> <p>City: _____</p> <p>State: _____</p> <p>Zip: _____</p>						
<p>5. Requester's Department</p> <p>Department Name: _____</p> <p>Address: _____</p> <p>City: _____</p> <p>State: _____</p> <p>Zip: _____</p>						
<p>6. Requester's Contact Information</p> <p>Name: _____</p> <p>Address: _____</p> <p>City: _____</p> <p>State: _____</p> <p>Zip: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> <p>Email: _____</p>						
<p>7. Requester's Signature</p> <p>Signature: _____</p>						
<p>8. Requester's Date</p> <p>Date: _____</p>						

CAPABILITY STUDY / Analytical Request Database
 Use this form to track the status of all analytical requests.

Request Information		Request Status		Request Details	
Request ID	Request Description	Request Date	Request Status	Requester Name	Requester Contact
1	SAMPLE ID	1/1/2020	Completed	John Doe	1234567890
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50					



June 04, 2021

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

RE: Project: MCDONOUGH AP-234 III & IV
Pace Project No.: 92533254

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between April 14, 2021 and April 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: 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-234 III & IV

Pace Project No.: 92533254

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92533254001	B-115D	Water	04/14/21 13:00	04/14/21 16:00
92533254002	B-120D	Water	04/15/21 11:27	04/16/21 13:15

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92533254001	B-115D	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
92533254002	B-120D	EPA 6010D	DRB	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234 III & IV
 Pace Project No.: 92533254

Sample: B-115D **Lab ID: 92533254001** Collected: 04/14/21 13:00 Received: 04/14/21 16:00 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		04/15/21 09:13		
pH	4.80	Std. Units			1		04/15/21 09:13		

6010D ATL ICP

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

Calcium	52.0	mg/L	1.0	0.070	1	04/16/21 10:55	04/16/21 18:26	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	0.00028	1	04/16/21 10:53	04/16/21 18:30	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.00078	1	04/16/21 10:53	04/16/21 18:30	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00071	1	04/16/21 10:53	04/16/21 18:30	7440-39-3	
Beryllium	0.012	mg/L	0.00050	0.000046	1	04/16/21 10:53	04/16/21 18:30	7440-41-7	
Boron	0.69	mg/L	0.040	0.0052	1	04/16/21 10:53	04/16/21 18:30	7440-42-8	
Cadmium	0.00041J	mg/L	0.00050	0.00012	1	04/16/21 10:53	04/16/21 18:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/16/21 10:53	04/16/21 18:30	7440-47-3	
Cobalt	0.30	mg/L	0.0050	0.00038	1	04/16/21 10:53	04/16/21 18:30	7440-48-4	
Lead	0.00032J	mg/L	0.0010	0.000036	1	04/16/21 10:53	04/16/21 18:30	7439-92-1	
Lithium	0.089	mg/L	0.030	0.00081	1	04/16/21 10:53	04/16/21 18:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/16/21 10:53	04/16/21 18:30	7439-98-7	
Selenium	0.0060	mg/L	0.0050	0.0016	1	04/16/21 10:53	04/16/21 18:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/16/21 10:53	04/16/21 18:30	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00020	0.000078	1	04/22/21 07:30	04/22/21 18:19	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	480	mg/L	10.0	10.0	1		04/21/21 21:44		
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300.0 IC Anions 28 Days

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

Chloride	7.9	mg/L	1.0	0.60	1		04/20/21 03:25	16887-00-6	
Fluoride	0.99	mg/L	0.10	0.050	1		04/20/21 03:25	16984-48-8	
Sulfate	256	mg/L	6.0	3.0	6		04/20/21 12:36	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

Sample: B-120D **Lab ID: 92533254002** Collected: 04/15/21 11:27 Received: 04/16/21 13:15 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		04/16/21 14:31		
pH	5.46	Std. Units			1		04/16/21 14:31		

6010D ATL ICP

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

Calcium	171	mg/L	1.0	0.070	1	04/20/21 11:05	04/22/21 00:00	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	0.00029J	mg/L	0.0030	0.00028	1	04/20/21 12:49	04/26/21 17:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/20/21 12:49	04/27/21 19:30	7440-38-2	
Barium	0.044	mg/L	0.0050	0.00071	1	04/20/21 12:49	04/26/21 17:31	7440-39-3	
Beryllium	0.00085	mg/L	0.00050	0.000046	1	04/20/21 12:49	04/26/21 17:31	7440-41-7	
Boron	1.9	mg/L	0.040	0.0052	1	04/20/21 12:49	04/26/21 17:31	7440-42-8	
Cadmium	0.0010	mg/L	0.00050	0.00012	1	04/20/21 12:49	04/26/21 17:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/20/21 12:49	04/27/21 19:30	7440-47-3	
Cobalt	0.017	mg/L	0.0050	0.00038	1	04/20/21 12:49	04/27/21 19:30	7440-48-4	
Lead	0.00019J	mg/L	0.0010	0.000036	1	04/20/21 12:49	04/26/21 17:31	7439-92-1	
Lithium	0.088	mg/L	0.030	0.00081	1	04/20/21 12:49	04/26/21 17:31	7439-93-2	
Molybdenum	0.00089J	mg/L	0.010	0.00069	1	04/20/21 12:49	04/26/21 17:31	7439-98-7	
Selenium	0.0016J	mg/L	0.0050	0.0016	1	04/20/21 12:49	04/27/21 19:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/20/21 12:49	04/26/21 17:31	7440-28-0	

7470 Mercury

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

Mercury	ND	mg/L	0.00020	0.000078	1	04/22/21 07:30	04/22/21 18:21	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	982	mg/L	20.0	20.0	1		04/21/21 23:10		
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300.0 IC Anions 28 Days

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

Chloride	6.2	mg/L	1.0	0.60	1		04/22/21 08:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/22/21 08:51	16984-48-8	
Sulfate	556	mg/L	12.0	6.0	12		04/22/21 11:29	14808-79-8	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

QC Batch:	614102	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92533254001

METHOD BLANK: 3232176 Matrix: Water

Associated Lab Samples: 92533254001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	04/16/21 17:08	

LABORATORY CONTROL SAMPLE: 3232177

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: 3232178 3232179

Parameter	Units	3232178		3232179		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92533251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	ND	1	1	1.0	1.0	103	101	75-125	1	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV
 Pace Project No.: 92533254

QC Batch: 614871 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92533254002

METHOD BLANK: 3235675 Matrix: Water
 Associated Lab Samples: 92533254002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	04/21/21 23:26	

LABORATORY CONTROL SAMPLE: 3235676

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: 3235677 3235678

Parameter	Units	3235677		3235678		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	31700 ug/L	1	1	31.5	31.7	-27	-3	75-125	1	20 M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV
 Pace Project No.: 92533254

QC Batch: 614104 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92533254001

METHOD BLANK: 3232186 Matrix: Water
 Associated Lab Samples: 92533254001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00035J	0.0030	0.00028	04/16/21 15:17	
Arsenic	mg/L	ND	0.0050	0.00078	04/16/21 15:17	
Barium	mg/L	ND	0.0050	0.00071	04/16/21 15:17	
Beryllium	mg/L	ND	0.00050	0.000046	04/16/21 15:17	
Boron	mg/L	ND	0.040	0.0052	04/16/21 15:17	
Cadmium	mg/L	ND	0.00050	0.00012	04/16/21 15:17	
Chromium	mg/L	ND	0.0050	0.00055	04/16/21 15:17	
Cobalt	mg/L	ND	0.0050	0.00038	04/16/21 15:17	
Lead	mg/L	ND	0.0010	0.000036	04/16/21 15:17	
Lithium	mg/L	ND	0.030	0.00081	04/16/21 15:17	
Molybdenum	mg/L	ND	0.010	0.00069	04/16/21 15:17	
Selenium	mg/L	ND	0.0050	0.0016	04/16/21 15:17	
Thallium	mg/L	ND	0.0010	0.00014	04/16/21 15:17	

LABORATORY CONTROL SAMPLE: 3232187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	114	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3232188 3232189

Parameter	Units	92533251002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	107	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

Parameter	Units	3232188		3232189		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92533251002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									MSD Result
Barium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	0	20		
Boron	mg/L	ND	1	1	1.0	1.1	103	106	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20		
Chromium	mg/L	0.0012J	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	0	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

QC Batch: 614897	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92533254002

METHOD BLANK: 3235846 Matrix: Water

Associated Lab Samples: 92533254002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	04/26/21 16:37	
Arsenic	mg/L	ND	0.0050	0.00078	04/26/21 16:37	
Barium	mg/L	ND	0.0050	0.00071	04/26/21 16:37	
Beryllium	mg/L	ND	0.00050	0.000046	04/26/21 16:37	
Boron	mg/L	ND	0.040	0.0052	04/26/21 16:37	
Cadmium	mg/L	ND	0.00050	0.00012	04/26/21 16:37	
Chromium	mg/L	ND	0.0050	0.00055	04/26/21 16:37	
Cobalt	mg/L	ND	0.0050	0.00038	04/26/21 16:37	
Lead	mg/L	ND	0.0010	0.000036	04/26/21 16:37	
Lithium	mg/L	ND	0.030	0.00081	04/26/21 16:37	
Molybdenum	mg/L	ND	0.010	0.00069	04/26/21 16:37	
Selenium	mg/L	ND	0.0050	0.0016	04/26/21 16:37	
Thallium	mg/L	ND	0.0010	0.00014	04/26/21 16:37	

LABORATORY CONTROL SAMPLE: 3235847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.094	94	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	0.99	99	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3235848 3235849

Parameter	Units	92533711014 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.096	96	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

Parameter	Units	3235848		3235849		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92533711014 Result	MS Spike Conc.	MSD Spike Conc.									
Barium	mg/L	35.9 ug/L	0.1	0.1	0.13	0.13	97	93	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	99	100	75-125	0	20		
Boron	mg/L	ND	1	1	0.98	1.0	97	100	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	99	100	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.098	0.099	97	99	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.094	97	94	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.097	0.099	96	98	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.097	99	97	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.093	95	92	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV
 Pace Project No.: 92533254

QC Batch: 615195 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92533254001, 92533254002

METHOD BLANK: 3237403 Matrix: Water
 Associated Lab Samples: 92533254001, 92533254002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	04/22/21 17:46	

LABORATORY CONTROL SAMPLE: 3237404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0028	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3237405 3237406

Parameter	Units	92533808001		3237406		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	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

QC Batch:	615202	Analysis Method:	SM 2540C-2011
QC Batch Method:	SM 2540C-2011	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	92533254001	Laboratory:	Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3237449 Matrix: Water
 Associated Lab Samples: 92533254001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/21/21 21:42	

LABORATORY CONTROL SAMPLE: 3237450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	403	101	90-111	

SAMPLE DUPLICATE: 3237451

Parameter	Units	92533049012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	51.0	64.0	23	10	D6

SAMPLE DUPLICATE: 3237452

Parameter	Units	92533275001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	13800	17100	21	10	D6

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

QC Batch: 615203	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: 92533254002

METHOD BLANK: 3237454 Matrix: Water

Associated Lab Samples: 92533254002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/21/21 23:09	

LABORATORY CONTROL SAMPLE: 3237455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	395	99	90-111	

SAMPLE DUPLICATE: 3237456

Parameter	Units	92533757001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	137	148	8	10	

SAMPLE DUPLICATE: 3237457

Parameter	Units	92533251003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	229	222	3	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

QC Batch: 614679	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: 92533254001

METHOD BLANK: 3234945 Matrix: Water

Associated Lab Samples: 92533254001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/19/21 21:27	
Fluoride	mg/L	ND	0.10	0.050	04/19/21 21:27	
Sulfate	mg/L	ND	1.0	0.50	04/19/21 21:27	

LABORATORY CONTROL SAMPLE: 3234946

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	2.3	93	90-110	
Sulfate	mg/L	50	47.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3234947 3234948

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92533709002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	5.4	50	50	56.0	55.8	101	101	90-110	0	10		
Fluoride	mg/L	0.81	2.5	2.5	3.1	3.1	92	91	90-110	0	10		
Sulfate	mg/L	21.9	50	50	72.6	72.2	101	101	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3234949 3234950

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92533252001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	3.2	50	50	52.3	54.8	98	103	90-110	5	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	97	102	90-110	5	10		
Sulfate	mg/L	1.3	50	50	50.2	52.7	98	103	90-110	5	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 III & IV
 Pace Project No.: 92533254

QC Batch: 615178 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: 92533254002

METHOD BLANK: 3237353 Matrix: Water
 Associated Lab Samples: 92533254002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/22/21 01:55	
Fluoride	mg/L	ND	0.10	0.050	04/22/21 01:55	
Sulfate	mg/L	ND	1.0	0.50	04/22/21 01:55	

LABORATORY CONTROL SAMPLE: 3237354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3237355 3237356

Parameter	Units	92534146001		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	973	50	50	987	991	30	37	90-110	0	10	M6	
Fluoride	mg/L	2.9	2.5	2.5	4.2	4.4	50	60	90-110	6	10	M6	
Sulfate	mg/L	1170	50	50	1180	1190	24	35	90-110	0	10	M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3237357 3237358

Parameter	Units	92534192004		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	7630	50	50	7420	7430	-415	-402	90-110	0	10	M6	
Fluoride	mg/L	5.6J	2.5	2.5	7.9J	8.0J	92	96	90-110			D3	
Sulfate	mg/L	942	50	50	963	968	41	53	90-110	1	10	M6	

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-234 III & IV
Pace Project No.: 92533254

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|---|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| M6 | Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234 III & IV

Pace Project No.: 92533254

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92533254001	B-115D				
92533254002	B-120D				
92533254001	B-115D	EPA 3010A	614102	EPA 6010D	614291
92533254002	B-120D	EPA 3010A	614871	EPA 6010D	614918
92533254001	B-115D	EPA 3005A	614104	EPA 6020B	614308
92533254002	B-120D	EPA 3005A	614897	EPA 6020B	614991
92533254001	B-115D	EPA 7470A	615195	EPA 7470A	615468
92533254002	B-120D	EPA 7470A	615195	EPA 7470A	615468
92533254001	B-115D	SM 2540C-2011	615202		
92533254002	B-120D	SM 2540C-2011	615203		
92533254001	B-115D	EPA 300.0 Rev 2.1 1993	614679		
92533254002	B-120D	EPA 300.0 Rev 2.1 1993	615178		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
Document No:
F-CAL-C3-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kershawville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92533254**



Carrier: Fed Ex UPS USPS Other
 Commercial Home Other

Study Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 4/19/26 [Signature]

Shipping Material: Bubble Wrap Bubble Bags None Other
Insulation: Dry Ice Ice None
Dry Ice ID: 233 Type of Ice: Dry Ice Ice None

Biological Tissue Frozen? Yes No N/A

Carrier Temp: 3.4 Correction Factor Add/Subtract (°C): -0.2

Temp should be above freezing to 5°C
 Samples out of temp or time. Samples on ice, cooling process has begun.

Carrier Temp Corrected (°C): 3.2

USA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, HI, or SC (check mark)?
 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 (K72 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? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	6
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7
Disinfectant/analytic Samples Field Filtered?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	8
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: <u>W</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9
Headspace in VOA Vials (>5-min)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	10
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY _____ Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION _____ Lot ID of split containers _____

Person contacted: _____ Date/Time: _____

Project Manager SCUR Review: _____ Date: _____

Project Manager SRP Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
P-CAR-03-013-Rev.07

Document Revised: October 23, 2013
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, TDC, Oil and Grease, DRD/SDS (water) DOC, LTLg

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

Project #

W0# : 92533254

PR: KLM1

Due Date: 04/28/14

CLIENT: CR-CR Power

Bottle #	Sample Description	Analysis Type	Result
1	1000-125 mL Plastic Unpreserved (MVA) (DC-1)		/
2	1000-250 mL Plastic Unpreserved (MVA)		/
3	1000-500 mL Plastic Unpreserved (MVA)		/
4	1000-1 Liter Plastic Unpreserved (MVA)		/
5	1000-1.25 mL Plastic Preserved (MVA) (pH < 7) (DC-1)		/
6	1000-250 mL Plastic Preserved (MVA) (pH < 7)		/
7	1000-500 mL Plastic Preserved (MVA) (pH < 7)		/
8	1000-1 Liter Plastic Preserved (MVA) (pH < 7)		/
9	1000-1.25 mL Plastic Preserved (MVA) (pH < 7)		/
10	1000-250 mL Plastic Preserved (MVA) (pH < 7)		/
11	1000-500 mL Plastic Preserved (MVA) (pH < 7)		/
12	1000-1 Liter Plastic Preserved (MVA) (pH < 7)		/
13	1000-1.25 mL Plastic Preserved (MVA) (pH < 7)		/
14	1000-250 mL Plastic Preserved (MVA) (pH < 7)		/
15	1000-500 mL Plastic Preserved (MVA) (pH < 7)		/
16	1000-1 Liter Plastic Preserved (MVA) (pH < 7)		/
17	1000-1.25 mL Plastic Preserved (MVA) (pH < 7)		/
18	1000-250 mL Plastic Preserved (MVA) (pH < 7)		/
19	1000-500 mL Plastic Preserved (MVA) (pH < 7)		/
20	1000-1 Liter Plastic Preserved (MVA) (pH < 7)		/
21	1000-1.25 mL Plastic Preserved (MVA) (pH < 7)		/
22	1000-250 mL Plastic Preserved (MVA) (pH < 7)		/
23	1000-500 mL Plastic Preserved (MVA) (pH < 7)		/
24	1000-1 Liter Plastic Preserved (MVA) (pH < 7)		/
25	1000-1.25 mL Plastic Preserved (MVA) (pH < 7)		/
26	1000-250 mL Plastic Preserved (MVA) (pH < 7)		/
27	1000-500 mL Plastic Preserved (MVA) (pH < 7)		/
28	1000-1 Liter Plastic Preserved (MVA) (pH < 7)		/
29	1000-1.25 mL Plastic Preserved (MVA) (pH < 7)		/
30	1000-250 mL Plastic Preserved (MVA) (pH < 7)		/
31	1000-500 mL Plastic Preserved (MVA) (pH < 7)		/
32	1000-1 Liter Plastic Preserved (MVA) (pH < 7)		/
33	1000-1.25 mL Plastic Preserved (MVA) (pH < 7)		/
34	1000-250 mL Plastic Preserved (MVA) (pH < 7)		/
35	1000-500 mL Plastic Preserved (MVA) (pH < 7)		/
36	1000-1 Liter Plastic Preserved (MVA) (pH < 7)		/
37	1000-1.25 mL Plastic Preserved (MVA) (pH < 7)		/
38	1000-250 mL Plastic Preserved (MVA) (pH < 7)		/
39	1000-500 mL Plastic Preserved (MVA) (pH < 7)		/
40	1000-1 Liter Plastic Preserved (MVA) (pH < 7)		/

BP1W

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 Department of Environment and Natural Resources, Out of State, Water Preservatives, Out of State, Water Containers.

2

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-Of-Custody is a critical document. All required fields must be completed accurately.

Page 1 of 2

Section 1: Analytical Request Information Request Number: <input type="text"/> Request Date: <input type="text"/> Requester: <input type="text"/> Requested By: <input type="text"/> Requested For: <input type="text"/> Requested On: <input type="text"/> Requested At: <input type="text"/> Requested By: <input type="text"/> Requested For: <input type="text"/> Requested On: <input type="text"/> Requested At: <input type="text"/> Requested By: <input type="text"/>		Section 2: Sample Information Sample ID: <input type="text"/> Sample Name: <input type="text"/> Sample Type: <input type="text"/> Sample Location: <input type="text"/> Sample Date: <input type="text"/> Sample Time: <input type="text"/> Sample By: <input type="text"/> Sample For: <input type="text"/>	
Section 3: Analysis Information Analysis Method: <input type="text"/> Analysis Location: <input type="text"/> Analysis Date: <input type="text"/> Analysis Time: <input type="text"/> Analysis By: <input type="text"/> Analysis For: <input type="text"/>		Section 4: Chain of Custody Date: <input type="text"/> Time: <input type="text"/> Name: <input type="text"/> Signature: <input type="text"/> Date: <input type="text"/> Time: <input type="text"/> Name: <input type="text"/> Signature: <input type="text"/>	

ITEM #	DESCRIPTION	DATE	TIME	INITIALS	ANALYSIS TEST		REMARKS
					TEST	RESULT	
1	SAMPLE ID						
2	DESCRIPTION						
3	DATE						
4	TIME						
5	INITIALS						
6	ANALYSIS TEST						
7	RESULT						
8	REMARKS						
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
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21							
22							
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24							
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26							
27							
28							
29							
30							

TESTER:

DATE:

TIME:

INITIALS:

CHANGING QUESTIONS Analysis Request Form

Form 1

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

Request Details
Request ID: [Redacted]
Request Type: [Redacted]
Request Description: [Redacted]

Question ID	Question Text	Priority	Status	Assigned To	Created Date	Last Modified
1	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
2	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
3	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
4	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
5	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
6	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
7	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
8	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
9	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
10	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
11	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
12	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
13	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
14	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
15	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
16	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
17	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
18	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
19	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
20	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
21	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
22	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
23	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
24	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
25	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
26	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
27	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
28	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
29	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
30	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]

Comments
[Redacted]

Approved By
[Redacted]

Requester Signature
[Redacted]

Requester Title
[Redacted]

Requester Department
[Redacted]

Requester Phone
[Redacted]

Requester Email
[Redacted]

Request Date
[Redacted]

Request Status
[Redacted]

Request Type
[Redacted]

Request Description
[Redacted]

June 04, 2021

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

RE: Project: MCDONOUGH AP-234 RADS
Pace Project No.: 92533249

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between April 14, 2021 and April 16, 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: 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-234 RADS

Pace Project No.: 92533249

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-234 RADS
Pace Project No.: 92533249

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92533249001	B-115D	Water	04/14/21 13:00	04/14/21 16:00
92533249002	B-120D	Water	04/15/21 11:27	04/16/21 13:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92533249

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92533249001	B-115D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92533249002	B-120D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	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 AP-234 RADS

Pace Project No.: 92533249

Sample: B-115D **Lab ID: 92533249001** Collected: 04/14/21 13:00 Received: 04/14/21 16:00 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	3.73 ± 0.625 (0.178) C:85% T:NA	pCi/L	05/05/21 19:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	11.0 ± 2.20 (0.924) C:71% T:85%	pCi/L	05/07/21 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	14.7 ± 2.83 (1.10)	pCi/L	05/10/21 10:53	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92533249

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-120D Lab ID: 92533249002 Collected: 04/15/21 11:27 Received: 04/16/21 13:15 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0454 ± 0.0765 (0.150) C:93% T:NA	pCi/L	05/05/21 19:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.26 ± 0.785 (1.13) C:67% T:73%	pCi/L	05/07/21 15:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.31 ± 0.862 (1.28)	pCi/L	05/10/21 10:53	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92533249

QC Batch: 445345

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92533249001, 92533249002

METHOD BLANK: 2149728

Matrix: Water

Associated Lab Samples: 92533249001, 92533249002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.120 ± 0.0920 (0.158) C:89% T:NA	pCi/L	05/05/21 19:49	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-234 RADS

Pace Project No.: 92533249

QC Batch: 445317

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92533249001, 92533249002

METHOD BLANK: 2149685

Matrix: Water

Associated Lab Samples: 92533249001, 92533249002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.310 ± 0.354 (0.744) C:75% T:85%	pCi/L	05/07/21 12:15	

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-234 RADS

Pace Project No.: 92533249

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234 RADS
Pace Project No.: 92533249

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92533249001	B-115D	EPA 9315	445345		
92533249002	B-120D	EPA 9315	445345		
92533249001	B-115D	EPA 9320	445317		
92533249002	B-120D	EPA 9320	445317		
92533249001	B-115D	Total Radium Calculation	447216		
92533249002	B-120D	Total Radium Calculation	447216		

REPORT OF LABORATORY ANALYSIS

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

Document Revised: October 18, 2020
Page 1 of 2
Issuing Authority:
Pace Carolina Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicville Atlanta Kernersville

Customer Code (Pace)
0306100870

Client Name:

G.A. Power

Project #:

WO#: **92533249**



Porter: Fed Ex UPS USPS Other

Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 4/19/20 CPH

Shipping Material: Bubble Wrap Bubble Bags None Other

Biological Sample Frozen? Yes No N/A

Thermometer: Analog 233 Type of Use: Rec. Use None

Ambient Temp: 3.4 Correction Factor: Add/Subtract (°C) -0.2

Temp should be above freezing to 6°C

Samples out of temp or time. Samples or use, cooling process has begun.

Ambient Temp Corrected (°C): 3.2

IDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States, CA, HI, or SC (check if app)? Yes No

Did samples originate from a foreign state (international) including Hawaii and Puerto Rico? Yes No

			Comments/Discrepancy
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	3
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	4
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	6
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	7
Disassembled Analysis: Samples Field Filtered?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8
-Includes Date/Time/ID/Analysis Matrix:	<u>W</u>		
Headspace in VOA Vials (>5-6ml)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
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: _____



CHAIN OF CUSTODY / Analytical Request Document
 The Chain of Custody is a legal document. All request fields must be completed accurately.

Page 1 of 1

Requester/Client Information		Requester Agency/Department		Requester Name	
Requester Name	Requester Title	Agency/Department	Requester Name	Requester Title	Requester Agency/Department
Requester Address	Requester Phone	Requester Email	Requester Fax	Requester Cell	Requester Home
Requester Email	Requester Cell	Requester Home	Requester Fax	Requester Cell	Requester Home
Requester Cell	Requester Home	Requester Fax	Requester Cell	Requester Home	Requester Fax
Requester Cell	Requester Home	Requester Fax	Requester Cell	Requester Home	Requester Fax

ITEM #	DESCRIPTION	DATE	TIME	INITIALS	SIGNATURE	TITLE	AGENCY	ADDRESS	CITY	STATE	ZIP	PHONE	FAX	CELL	HOME	EMAIL	ANALYSIS TEST	ANALYST	LABORATORY	EQUIPMENT	METHOD	REMARKS	
																							ANALYSIS TEST	ANALYST	LABORATORY	EQUIPMENT	METHOD	REMARKS
1	SAMPLE ID Item Location per box Sample the seal to ensure	11/11/11	10:00																				
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Requester Name: []
 Requester Title: []
 Agency/Department: []
 Requester Name: []
 Requester Title: []
 Agency/Department: []
 Requester Name: []
 Requester Title: []
 Agency/Department: []

Quality Control Sample Performance Assessment

Project Name: _____

Project Location: _____

Sample ID: _____
Sample Type: _____
Quantity: _____

Parameter	Test Method	Result	Acceptance Criteria
Moisture Content	ASTM D 1555	12.5%	10-15%
Specific Gravity	ASTM D 1555	2.65	2.60-2.70
Compaction	ASTM D 1555	95%	90-100%
Gradation	ASTM D 1555	Pass	As per specification

Parameter	Test Method	Result	Acceptance Criteria
Unconfined Compressive Strength (UCS)	ASTM D 1586	1500 psi	1000-2000 psi
California Bearing Ratio (CBR)	ASTM D 1559	80	70-90
Soil Classification	ASTM D 2487	CL	As per specification
Shrinkage Ratio	ASTM D 1585	1.05	1.00-1.10

Parameter	Test Method	Result	Acceptance Criteria
Free Water	ASTM D 1585	15%	10-20%
Shrinkage Limit	ASTM D 1585	18%	15-25%
Plasticity Index	ASTM D 4318	10	0-15
Liquidity Limit	ASTM D 4318	28	25-35

Parameter	Test Method	Result	Acceptance Criteria
Moisture Content	ASTM D 1555	12.5%	10-15%
Specific Gravity	ASTM D 1555	2.65	2.60-2.70
Compaction	ASTM D 1555	95%	90-100%
Gradation	ASTM D 1555	Pass	As per specification

Parameter	Test Method	Result	Acceptance Criteria
Unconfined Compressive Strength (UCS)	ASTM D 1586	1500 psi	1000-2000 psi
California Bearing Ratio (CBR)	ASTM D 1559	80	70-90
Soil Classification	ASTM D 2487	CL	As per specification
Shrinkage Ratio	ASTM D 1585	1.05	1.00-1.10

Parameter	Test Method	Result	Acceptance Criteria
Free Water	ASTM D 1585	15%	10-20%
Shrinkage Limit	ASTM D 1585	18%	15-25%
Plasticity Index	ASTM D 4318	10	0-15
Liquidity Limit	ASTM D 4318	28	25-35

All test results are within the specified acceptance criteria. The quality control sample performance is satisfactory.

Prepared by: _____
 Date: _____

[Handwritten Signature]

Project Engineer

Quality Control Sample Performance Assessment



Item ID: MS-316
 Model: 3-MS-316
 Version: 1.0
 Date: 1/2/2017

Quality Control Assessment

Assessment ID: 316
 Test ID: 316
 Item ID: 316
 Model: 3-MS-316
 Version: 1.0
 Date: 1/2/2017

Item ID	Item Description	Number of Items	Number of Students	Number of Attempts
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125

Item 316 Performance Summary

Item ID	Item Description	Number of Items	Number of Students	Number of Attempts
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125

Item 316 Performance Summary for the sample assessment. The table shows the number of items, the number of students, and the number of attempts for each item.

Item 316 Performance Summary (Continued)

Item ID	Item Description	Number of Items	Number of Students	Number of Attempts
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125

Item 316 Performance Summary (Continued)

Item ID	Item Description	Number of Items	Number of Students	Number of Attempts
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125
316	Item Description	1	125	125

Item 316 Performance Summary for the sample assessment. The table shows the number of items, the number of students, and the number of attempts for each item.

Handwritten signature or initials.



May 13, 2021

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

RE: Project: COBB COUNTY ANNUAL
Pace Project No.: 92526981

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 11, 2021 and March 15, 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services 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: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526981001	B-90	Water	03/10/21 14:36	03/11/21 08:50
92526981002	B-91	Water	03/10/21 14:37	03/11/21 08:50
92526981003	B-92	Water	03/09/21 14:36	03/11/21 08:50
92526981004	B-93	Water	03/09/21 14:52	03/11/21 08:50
92526981005	B-95	Water	03/09/21 11:15	03/11/21 08:50
92526981006	B-96	Water	03/09/21 11:06	03/11/21 08:50
92526981007	B-97	Water	03/09/21 13:16	03/11/21 08:50
92526981008	B-99	Water	03/09/21 12:30	03/11/21 08:50
92526981009	B-98	Water	03/15/21 11:08	03/15/21 14:03

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SAMPLE ANALYTE COUNT

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92526981001	B-90	EPA 6020B	CW1	1
92526981002	B-91	EPA 6020B	CW1	1
92526981003	B-92	EPA 6020B	CW1	2
92526981004	B-93	EPA 6020B	CW1	3
92526981005	B-95	EPA 6020B	CW1	1
92526981006	B-96	EPA 6020B	CW1	1
92526981007	B-97	EPA 6020B	CW1	1
92526981008	B-99	EPA 6020B	CW1	1
92526981009	B-98	EPA 6020B	CW1	2

PASI-C = Pace Analytical Services - Charlotte

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

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-90		Lab ID: 92526981001		Collected: 03/10/21 14:36		Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	5.48	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	4.4	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 10:17	7440-42-8	M1

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-91									
Lab ID: 92526981002									
Collected: 03/10/21 14:37									
Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	5.34	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B									
Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	4.3	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 10:40	7440-42-8	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-92 **Lab ID: 92526981003** Collected: 03/09/21 14:36 Received: 03/11/21 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 **CUSTOMER** 1 03/22/21 11:56

pH **4.62** Std. Units 1 03/22/21 11:56

6020 MET ICPMS

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

Beryllium **0.017** mg/L 0.0025 0.00023 5 03/24/21 13:05 03/25/21 10:45 7440-41-7

Boron **2.9** mg/L 0.20 0.026 5 03/24/21 13:05 03/25/21 10:45 7440-42-8

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-93 **Lab ID: 92526981004** Collected: 03/09/21 14:52 Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	4.73	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Beryllium	0.017	mg/L	0.0025	0.00023	5	03/23/21 13:05	03/24/21 13:39	7440-41-7	
Boron	3.4	mg/L	0.20	0.026	5	03/23/21 13:05	03/24/21 13:39	7440-42-8	
Cobalt	0.061	mg/L	0.025	0.0019	5	03/23/21 13:05	03/24/21 13:39	7440-48-4	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-95		Lab ID: 92526981005		Collected: 03/09/21 11:15		Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	5.36	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	2.8	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 10:51	7440-42-8	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-96		Lab ID: 92526981006		Collected: 03/09/21 11:06		Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	4.99	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	4.5	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 10:57	7440-42-8	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-97		Lab ID: 92526981007		Collected: 03/09/21 13:16		Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	5.55	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Beryllium	0.0019	mg/L	0.00050	0.000046	1	03/24/21 13:05	03/25/21 11:22	7440-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-99		Lab ID: 92526981008		Collected: 03/09/21 12:30	Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	5.73	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	3.1	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 11:28	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-98 **Lab ID: 92526981009** Collected: 03/15/21 11:08 Received: 03/15/21 14:03 Matrix: Water

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

Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		03/22/21 11:56		
--------------	-----------------	--	--	--	---	--	----------------	--	--

pH	6.30	Std. Units			1		03/22/21 11:56		
----	-------------	------------	--	--	---	--	----------------	--	--

6020 MET ICPMS

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

Beryllium	ND	mg/L	0.00050	0.000046	1	03/24/21 13:05	03/25/21 11:33	7440-41-7	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/24/21 13:05	03/25/21 11:33	7440-48-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

QC Batch: 608528

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526981004

METHOD BLANK: 3205426

Matrix: Water

Associated Lab Samples: 92526981004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Beryllium	mg/L	ND	0.00050	0.000046	03/23/21 18:59	
Boron	mg/L	ND	0.040	0.0052	03/23/21 18:59	
Cobalt	mg/L	ND	0.0050	0.00038	03/23/21 18:59	

LABORATORY CONTROL SAMPLE: 3205427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cobalt	mg/L	0.1	0.091	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3205457 3205458

Parameter	Units	92527018001		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result								% Rec	% Rec
Beryllium	mg/L	0.0026	0.1	0.1	0.091	0.089	89	87	75-125	2	20			
Boron	mg/L	4.2	1	1	5.1	5.1	92	84	75-125	2	20			
Cobalt	mg/L	0.012	0.1	0.1	0.10	0.10	90	88	75-125	1	20			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COBB COUNTY ANNUAL
 Pace Project No.: 92526981

QC Batch: 608900 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526981001, 92526981002, 92526981003, 92526981005, 92526981006, 92526981007, 92526981008, 92526981009

METHOD BLANK: 3207065 Matrix: Water
 Associated Lab Samples: 92526981001, 92526981002, 92526981003, 92526981005, 92526981006, 92526981007, 92526981008, 92526981009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Beryllium	mg/L	ND	0.00050	0.000046	03/25/21 10:05	
Boron	mg/L	ND	0.040	0.0052	03/25/21 10:05	
Cobalt	mg/L	ND	0.0050	0.00038	03/25/21 10:05	

LABORATORY CONTROL SAMPLE: 3207066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3207067 3207068

Parameter	Units	3207067		3207068		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Beryllium	mg/L	0.0024J	0.1	0.1	0.10	0.10	102	99	75-125	3	20
Boron	mg/L	4.4	1	1	5.1	4.8	65	41	75-125	5	20 M1
Cobalt	mg/L	0.0048J	0.1	0.1	0.11	0.11	104	104	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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QUALIFIERS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526981001	B-90				
92526981002	B-91				
92526981003	B-92				
92526981004	B-93				
92526981005	B-95				
92526981006	B-96				
92526981007	B-97				
92526981008	B-99				
92526981009	B-98				
92526981001	B-90	EPA 3005A	608900	EPA 6020B	608991
92526981002	B-91	EPA 3005A	608900	EPA 6020B	608991
92526981003	B-92	EPA 3005A	608900	EPA 6020B	608991
92526981004	B-93	EPA 3005A	608528	EPA 6020B	608679
92526981005	B-95	EPA 3005A	608900	EPA 6020B	608991
92526981006	B-96	EPA 3005A	608900	EPA 6020B	608991
92526981007	B-97	EPA 3005A	608900	EPA 6020B	608991
92526981008	B-99	EPA 3005A	608900	EPA 6020B	608991
92526981009	B-98	EPA 3005A	608900	EPA 6020B	608991

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Hendersonville Raleigh Mechanicsville Atlanta Knoxville

Special Handling Instructions

Client Name: GAPower Project ID: _____

Country: Continental Puerto Rico Alaska Hawaii Other _____

Customer Self-Insured? Yes No Self-Insured? Yes No

Facility Location: Active Work Active Site Home Other
Transportation: Tractor 283 Other _____

Cooling Temp: 3.9 Compressive Factor: 1.2
Add'l Subject ID: 3044

Customer Being Constructed (PC)
USDA Registered Soil? Yes No Other _____

Is it a special shipment or a preliminary collection in the United States? Yes No

Customer Self-Insured for Sampling Conditions? Yes No

Biological Transport Process? Yes No

They should be stored in airtight containers? Yes No Other _____

Is it a sample of a plant or animal? Yes No

Customer Requirements	Compliance/Exception
Client of Country/Region? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other _____	1
Sample ID Assigned within 10 days? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other _____	2
Standardized Analytical Method? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other _____	3
Blank Tests Provided (Per Requested)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Other _____	4
Substrate Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other _____	5
Container Labeling? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other _____	6
Biological Analysis Method (Per Request)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Other _____	7
Temperature Maintained 20C? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other _____	8
Included Certificate of Analysis? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other _____	9
Methodology (Per Request) (Per Request)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Other _____	10
Transport Method (Per Request)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Other _____	11

Customer/Supplier Information: _____ Date Data Received? Yes No

Project Manager SCL/SP Review: _____ Date: _____

Project Manager SCL/SP Review: _____ Date: _____



CHAIN OF CUSTODY / Analytical Request Document
 The Original Copy is a Legal Document. All relevant items must be stamped accurately.

MO# : 92526981



Section 1: Requester Information
 Requester Name: [Blank]
 Requester Title: [Blank]
 Requester Address: [Blank]
 Requester Phone: [Blank]
 Requester Email: [Blank]

Section 2: Requested Analyte
 Analyte Name: [Blank]
 Analyte Description: [Blank]
 Analyte Reference: [Blank]

Section 3: Sample Information
 Sample ID: [Blank]
 Sample Description: [Blank]
 Sample Source: [Blank]
 Sample Date: [Blank]
 Sample Time: [Blank]

Section 4: Laboratory Information
 Laboratory Name: [Blank]
 Laboratory Address: [Blank]
 Laboratory Phone: [Blank]
 Laboratory Email: [Blank]

ITEM #	SAMPLE ID	DATE	TIME	INITIALS	ANALYTES		ANALYSIS METHOD	ANALYSIS COST	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS COMMENTS
					ANALYTE 1	ANALYTE 2					
1	92526981	3/11/21	8:30	EL	92526981	92526981	GC/MS	100	3/11/21	8:30	GC/MS
2	92526982	3/11/21	8:30	EL	92526982	92526982	GC/MS	100	3/11/21	8:30	GC/MS
3	92526983	3/11/21	8:30	EL	92526983	92526983	GC/MS	100	3/11/21	8:30	GC/MS
4	92526984	3/11/21	8:30	EL	92526984	92526984	GC/MS	100	3/11/21	8:30	GC/MS
5	92526985	3/11/21	8:30	EL	92526985	92526985	GC/MS	100	3/11/21	8:30	GC/MS
6	92526986	3/11/21	8:30	EL	92526986	92526986	GC/MS	100	3/11/21	8:30	GC/MS
7	92526987	3/11/21	8:30	EL	92526987	92526987	GC/MS	100	3/11/21	8:30	GC/MS
8	92526988	3/11/21	8:30	EL	92526988	92526988	GC/MS	100	3/11/21	8:30	GC/MS
9	92526989	3/11/21	8:30	EL	92526989	92526989	GC/MS	100	3/11/21	8:30	GC/MS
10	92526990	3/11/21	8:30	EL	92526990	92526990	GC/MS	100	3/11/21	8:30	GC/MS
11	92526991	3/11/21	8:30	EL	92526991	92526991	GC/MS	100	3/11/21	8:30	GC/MS
12	92526992	3/11/21	8:30	EL	92526992	92526992	GC/MS	100	3/11/21	8:30	GC/MS
13	92526993	3/11/21	8:30	EL	92526993	92526993	GC/MS	100	3/11/21	8:30	GC/MS
14	92526994	3/11/21	8:30	EL	92526994	92526994	GC/MS	100	3/11/21	8:30	GC/MS

LAB USE ONLY
 ANALYST SIGNATURE: [Blank]
 ANALYST DATE: [Blank]

COMBIBL-01-408310071 Analytical Methods Code Sheet

Printed on: 03/15/2014 10:45:11 AM

Method Name: **COMBIBL-01-408310071** Method ID: **01-408310071** Method Version: **1.0**

Sample Name	Sample ID	Sample Description	Sample Location	Sample Date	Sample Time	Sample Operator	Sample Status
COMBIBL-01-408310071	01-408310071	...	...	...	...	...	...

Run	Sample Name	Sample ID	Sample Description	Sample Location	Sample Date	Sample Time	Sample Operator	Sample Status	Analysis Time	Analysis Date	Analysis Time	Analysis Date	Analysis Time	Analysis Date	Analysis Time	Analysis Date	Analysis Time	Analysis Date
1
2
3
4
5
6
7
8
9
10
11
12
13



May 13, 2021

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

RE: Project: COBB COUNTY ANNUAL
Pace Project No.: 92526981

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 11, 2021 and March 15, 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services 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: COBB COUNTY ANNUAL
Pace Project No.: 92526981

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526981001	B-90	Water	03/10/21 14:36	03/11/21 08:50
92526981002	B-91	Water	03/10/21 14:37	03/11/21 08:50
92526981003	B-92	Water	03/09/21 14:36	03/11/21 08:50
92526981004	B-93	Water	03/09/21 14:52	03/11/21 08:50
92526981005	B-95	Water	03/09/21 11:15	03/11/21 08:50
92526981006	B-96	Water	03/09/21 11:06	03/11/21 08:50
92526981007	B-97	Water	03/09/21 13:16	03/11/21 08:50
92526981008	B-99	Water	03/09/21 12:30	03/11/21 08:50
92526981009	B-98	Water	03/15/21 11:08	03/15/21 14:03

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SAMPLE ANALYTE COUNT

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92526981001	B-90	EPA 6020B	CW1	1
92526981002	B-91	EPA 6020B	CW1	1
92526981003	B-92	EPA 6020B	CW1	2
92526981004	B-93	EPA 6020B	CW1	3
92526981005	B-95	EPA 6020B	CW1	1
92526981006	B-96	EPA 6020B	CW1	1
92526981007	B-97	EPA 6020B	CW1	1
92526981008	B-99	EPA 6020B	CW1	1
92526981009	B-98	EPA 6020B	CW1	2

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: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-90		Lab ID: 92526981001		Collected: 03/10/21 14:36		Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	5.48	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	4.4	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 10:17	7440-42-8	M1

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-91									
Lab ID: 92526981002									
Collected: 03/10/21 14:37									
Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	5.34	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B									
Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	4.3	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 10:40	7440-42-8	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-92 **Lab ID: 92526981003** Collected: 03/09/21 14:36 Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
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pH	4.62	Std. Units			1		03/22/21 11:56		
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6020 MET ICPMS

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

Beryllium	0.017	mg/L	0.0025	0.00023	5	03/24/21 13:05	03/25/21 10:45	7440-41-7	
Boron	2.9	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 10:45	7440-42-8	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-93 **Lab ID: 92526981004** Collected: 03/09/21 14:52 Received: 03/11/21 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 **CUSTOMER** 1 03/22/21 11:56

pH **4.73** Std. Units 1 03/22/21 11:56

6020 MET ICPMS

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

Beryllium	0.017	mg/L	0.0025	0.00023	5	03/23/21 13:05	03/24/21 13:39	7440-41-7	
Boron	3.4	mg/L	0.20	0.026	5	03/23/21 13:05	03/24/21 13:39	7440-42-8	
Cobalt	0.061	mg/L	0.025	0.0019	5	03/23/21 13:05	03/24/21 13:39	7440-48-4	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-95		Lab ID: 92526981005		Collected: 03/09/21 11:15		Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	5.36	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	2.8	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 10:51	7440-42-8	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-96		Lab ID: 92526981006		Collected: 03/09/21 11:06		Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	4.99	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	4.5	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 10:57	7440-42-8	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-97		Lab ID: 92526981007		Collected: 03/09/21 13:16	Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	5.55	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Beryllium	0.0019	mg/L	0.00050	0.000046	1	03/24/21 13:05	03/25/21 11:22	7440-41-7	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-99		Lab ID: 92526981008		Collected: 03/09/21 12:30	Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:56		
pH	5.73	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	3.1	mg/L	0.20	0.026	5	03/24/21 13:05	03/25/21 11:28	7440-42-8	

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ANALYTICAL RESULTS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Sample: B-98		Lab ID: 92526981009		Collected: 03/15/21 11:08		Received: 03/15/21 14:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:56		
pH	6.30	Std. Units			1		03/22/21 11:56		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Beryllium	ND	mg/L	0.00050	0.000046	1	03/24/21 13:05	03/25/21 11:33	7440-41-7	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/24/21 13:05	03/25/21 11:33	7440-48-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

QC Batch:	608528	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526981004

METHOD BLANK: 3205426 Matrix: Water

Associated Lab Samples: 92526981004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Beryllium	mg/L	ND	0.00050	0.000046	03/23/21 18:59	
Boron	mg/L	ND	0.040	0.0052	03/23/21 18:59	
Cobalt	mg/L	ND	0.0050	0.00038	03/23/21 18:59	

LABORATORY CONTROL SAMPLE: 3205427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cobalt	mg/L	0.1	0.091	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3205457 3205458

Parameter	Units	92527018001		3205457		3205458		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							MS % Rec	MSD % Rec
Beryllium	mg/L	0.0026	0.0026	0.1	0.1	0.091	0.089	89	87	75-125	2	20	
Boron	mg/L	4.2	4.2	1	1	5.1	5.1	92	84	75-125	2	20	
Cobalt	mg/L	0.012	0.012	0.1	0.1	0.10	0.10	90	88	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: COBB COUNTY ANNUAL
 Pace Project No.: 92526981

QC Batch: 608900 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526981001, 92526981002, 92526981003, 92526981005, 92526981006, 92526981007, 92526981008, 92526981009

METHOD BLANK: 3207065 Matrix: Water
 Associated Lab Samples: 92526981001, 92526981002, 92526981003, 92526981005, 92526981006, 92526981007, 92526981008, 92526981009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Beryllium	mg/L	ND	0.00050	0.000046	03/25/21 10:05	
Boron	mg/L	ND	0.040	0.0052	03/25/21 10:05	
Cobalt	mg/L	ND	0.0050	0.00038	03/25/21 10:05	

LABORATORY CONTROL SAMPLE: 3207066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3207067 3207068

Parameter	Units	92526981001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	0.0024J	0.1	0.1	0.10	0.10	102	99	75-125	3	20	
Boron	mg/L	4.4	1	1	5.1	4.8	65	41	75-125	5	20	M1
Cobalt	mg/L	0.0048J	0.1	0.1	0.11	0.11	104	104	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.

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QUALIFIERS

Project: COBB COUNTY ANNUAL

Pace Project No.: 92526981

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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: COBB COUNTY ANNUAL

Pace Project No.: 92526981

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526981001	B-90				
92526981002	B-91				
92526981003	B-92				
92526981004	B-93				
92526981005	B-95				
92526981006	B-96				
92526981007	B-97				
92526981008	B-99				
92526981009	B-98				
92526981001	B-90	EPA 3005A	608900	EPA 6020B	608991
92526981002	B-91	EPA 3005A	608900	EPA 6020B	608991
92526981003	B-92	EPA 3005A	608900	EPA 6020B	608991
92526981004	B-93	EPA 3005A	608528	EPA 6020B	608679
92526981005	B-95	EPA 3005A	608900	EPA 6020B	608991
92526981006	B-96	EPA 3005A	608900	EPA 6020B	608991
92526981007	B-97	EPA 3005A	608900	EPA 6020B	608991
92526981008	B-99	EPA 3005A	608900	EPA 6020B	608991
92526981009	B-98	EPA 3005A	608900	EPA 6020B	608991

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Knoxville

Sample Name (or Trace #)

Client Name: GAPower Project ID: _____

Category: Controlled Field Air Soil Other _____

Substrate Soil Present? Yes No Soil Moist? Yes No

For biological? Active Micro Active Bact None Other _____
Transportation: To Lab 2.83 Other _____

Cooling Temp: 3.9 (Compliance Factor: 1.2)
Add'l Subject ID: 3.04

(Cooling Using Controlled PCP)
USDA Registered Soil? Yes No (non sample)
Is it a report required by a regulatory authority in the United States? No Yes

Describe Lab's Prior Sampling Conditions: 3/1/02

Biological Trace Present? Yes No

They should be above freezing? No Yes (in presence of any trace, sample or processing product storage)

Is sample original? Yes No (original means original, not being re-used and having been stored properly)

Client's Sampling Method	Yes	No	Other	Comments/Observations
Client's Sampling Method	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sample Stored under High Temp?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Sample Stored under High Humidity?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
Sample Stored under High Light?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Sample Stored under High Vibration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Container Contaminated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Sample Contaminated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Container Analyzed (Sample, Seal, Cap)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8
Sample Labels Match DOC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
Include DevT that indicates: <u>3.04 T</u>				
Method of Storage (if different)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10
Temp. Storage Method?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Transport Method (if different)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments/Observations: _____ Date Rec'd: Yes No

TURN IN SAMPLES TO: _____

Person Conducted: _____ Date: _____
Project Manager SCL/SP Review: _____ Date: _____
Project Manager SCL/SP Review: _____ Date: _____



CHAIN OF CUSTODY / Analytical Request Document
The Chain of Custody is a critical document. All relevant boxes must be completed accurately.



MO# : 92526981

Section 1 Requested From (Organization) Section 2 Requested By (Name) Section 3 Requested Date (MM/DD/YYYY)

Requester Name	Requester Title	Requester Organization	Requester Phone	Requester Email	Requester Address	Requester City	Requester State	Requester Zip
Requester Date	Requester Time	Requester Location	Requester Method	Requester Priority	Requester Comments	Requester Signature	Requester Initials	Requester Date/Time

ITEM #	SAMPLE ID	DATE	TIME	LOCATION	ANALYSIS	ANALYSIS TEST		RESIDUE CHARGE #/ID
						DATE	TIME	
1	925	10/10/2011	10:00	1000	1000	1000	1000	1000
2	926	10/10/2011	10:00	1000	1000	1000	1000	1000
3	927	10/10/2011	10:00	1000	1000	1000	1000	1000
4	928	10/10/2011	10:00	1000	1000	1000	1000	1000
5	929	10/10/2011	10:00	1000	1000	1000	1000	1000
6	930	10/10/2011	10:00	1000	1000	1000	1000	1000
7	931	10/10/2011	10:00	1000	1000	1000	1000	1000
8	932	10/10/2011	10:00	1000	1000	1000	1000	1000
9	933	10/10/2011	10:00	1000	1000	1000	1000	1000
10	934	10/10/2011	10:00	1000	1000	1000	1000	1000
11	935	10/10/2011	10:00	1000	1000	1000	1000	1000
12	936	10/10/2011	10:00	1000	1000	1000	1000	1000
13	937	10/10/2011	10:00	1000	1000	1000	1000	1000
14	938	10/10/2011	10:00	1000	1000	1000	1000	1000
15	939	10/10/2011	10:00	1000	1000	1000	1000	1000
16	940	10/10/2011	10:00	1000	1000	1000	1000	1000
17	941	10/10/2011	10:00	1000	1000	1000	1000	1000
18	942	10/10/2011	10:00	1000	1000	1000	1000	1000
19	943	10/10/2011	10:00	1000	1000	1000	1000	1000
20	944	10/10/2011	10:00	1000	1000	1000	1000	1000
21	945	10/10/2011	10:00	1000	1000	1000	1000	1000
22	946	10/10/2011	10:00	1000	1000	1000	1000	1000
23	947	10/10/2011	10:00	1000	1000	1000	1000	1000
24	948	10/10/2011	10:00	1000	1000	1000	1000	1000
25	949	10/10/2011	10:00	1000	1000	1000	1000	1000
26	950	10/10/2011	10:00	1000	1000	1000	1000	1000

LABORATORY USE ONLY

TEST #

TEST DATE

TEST TIME

TEST LOCATION

TEST OPERATOR

TEST INSTRUMENT

TEST METHOD

TEST RESULT

CALIBRATION CURVE ANALYTICAL MANUALLY CALCULATION

Page: 1 of 1

Standard Name: **Standard** Standard ID: **Standard**

Sample Name: **Sample 1** Sample ID: **Sample 1**

Sample Location: **Sample 1** Sample Date: **Sample 1**

Sample ID	Sample Name	Sample Location	Sample Date	Concentration		Response		Slope	Intercept	R-squared
				Concentration	Response	Concentration	Response			
1	Sample 1	Sample 1	Sample 1	1000	1000	1000	1000	1000	1000	1000
2	Sample 1	Sample 1	Sample 1	2000	2000	2000	2000	2000	2000	2000
3	Sample 1	Sample 1	Sample 1	3000	3000	3000	3000	3000	3000	3000
4	Sample 1	Sample 1	Sample 1	4000	4000	4000	4000	4000	4000	4000
5	Sample 1	Sample 1	Sample 1	5000	5000	5000	5000	5000	5000	5000
6	Sample 1	Sample 1	Sample 1	6000	6000	6000	6000	6000	6000	6000
7	Sample 1	Sample 1	Sample 1	7000	7000	7000	7000	7000	7000	7000
8	Sample 1	Sample 1	Sample 1	8000	8000	8000	8000	8000	8000	8000
9	Sample 1	Sample 1	Sample 1	9000	9000	9000	9000	9000	9000	9000
10	Sample 1	Sample 1	Sample 1	10000	10000	10000	10000	10000	10000	10000
11	Sample 1	Sample 1	Sample 1	11000	11000	11000	11000	11000	11000	11000
12	Sample 1	Sample 1	Sample 1	12000	12000	12000	12000	12000	12000	12000
13	Sample 1	Sample 1	Sample 1	13000	13000	13000	13000	13000	13000	13000

1000
 2000
 3000
 4000
 5000
 6000
 7000
 8000
 9000
 10000
 11000
 12000
 13000



May 13, 2021

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

RE: Project: PLANT MCDONOUGH RISK EVAL
Pace Project No.: 92527018

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 05, 2021 and March 12, 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: PLANT MCDONOUGH RISK EVAL
Pace Project No.: 92527018

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92527018001	B-54	Water	03/10/21 12:00	03/11/21 08:50
92527018002	B-64	Water	03/10/21 13:23	03/11/21 08:50
92527018003	B-66	Water	03/12/21 10:11	03/12/21 17:23
92527018004	B-82	Water	03/12/21 11:50	03/12/21 17:23
92527018005	B-78	Water	03/12/21 13:23	03/12/21 17:23
92527018006	B-63	Water	03/12/21 11:24	03/12/21 17:23
92527018008	B-76	Water	03/12/21 15:45	03/12/21 17:23
92527018009	B-68	Water	03/11/21 11:05	03/12/21 17:23
92527018010	B-73	Water	03/11/21 14:52	03/12/21 17:23
92527018011	B-79	Water	03/11/21 16:35	03/12/21 17:23
92524831026	B-88	Water	03/05/21 11:25	03/05/21 16:16
92524831029	B-77	Water	03/04/21 12:22	03/05/21 16:16

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92527018001	B-54	EPA 6020B	CW1	1
92527018002	B-64	EPA 6020B	CW1	1
92527018003	B-66	EPA 6020B	CW1	2
92527018004	B-82	EPA 6020B	CW1	2
92527018005	B-78	EPA 6020B	CW1	1
92527018006	B-63	EPA 6020B	CW1	2
92527018008	B-76	EPA 6020B	CW1	2
92527018009	B-68	EPA 6020B	CW1	2
92527018010	B-73	EPA 6020B	CW1	1
92527018011	B-79	EPA 6020B	CW1	1
92524831026	B-88	EPA 6020B	CW1	1
92524831029	B-77	EPA 6020B	CW1	2

PASI-C = Pace Analytical Services - Charlotte

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

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-54		Lab ID: 92527018001		Collected: 03/10/21 12:00		Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:55		
pH	5.33	Std. Units			1		03/22/21 11:55		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Lithium	0.0059J	mg/L	0.030	0.00081	1	03/23/21 13:05	03/23/21 19:10	7439-93-2	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-64		Lab ID: 92527018002		Collected: 03/10/21 13:23		Received: 03/11/21 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	CUSTOMER				1		03/22/21 11:55		
pH	4.98	Std. Units			1		03/22/21 11:55		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Lithium	0.011J	mg/L	0.030	0.00081	1	03/23/21 13:05	03/23/21 19:33	7439-93-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-66 **Lab ID: 92527018003** Collected: 03/12/21 10:11 Received: 03/12/21 17:23 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		03/22/21 11:55		
--------------	-----------------	--	--	--	---	--	----------------	--	--

pH	6.53	Std. Units			1		03/22/21 11:55		
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6020 MET ICPMS

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

Arsenic	ND	mg/L	0.0050	0.00078	1	03/23/21 13:05	03/23/21 19:39	7440-38-2	
Cobalt	0.010	mg/L	0.0050	0.00038	1	03/23/21 13:05	03/23/21 19:39	7440-48-4	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-82 **Lab ID: 92527018004** Collected: 03/12/21 11:50 Received: 03/12/21 17:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	CUSTOMER				1		03/22/21 11:55		
pH	5.29	Std. Units			1		03/22/21 11:55		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00078	1	03/23/21 13:05	03/23/21 19:44	7440-38-2	
Cobalt	0.0021J	mg/L	0.0050	0.00038	1	03/23/21 13:05	03/23/21 19:44	7440-48-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-78		Lab ID: 92527018005		Collected: 03/12/21 13:23		Received: 03/12/21 17:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	CUSTOMER				1		03/22/21 11:55		
pH	4.57	Std. Units			1		03/22/21 11:55		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	0.010J	mg/L	0.030	0.00081	1	03/23/21 13:05	03/23/21 19:50	7439-93-2	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-63 **Lab ID: 92527018006** Collected: 03/12/21 11:24 Received: 03/12/21 17:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:55		
pH	5.51	Std. Units			1		03/22/21 11:55		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Cobalt	0.046	mg/L	0.0050	0.00038	1	03/23/21 13:05	03/23/21 20:07	7440-48-4	
Lithium	0.0066J	mg/L	0.030	0.00081	1	03/23/21 13:05	03/23/21 20:07	7439-93-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-76 **Lab ID: 92527018008** Collected: 03/12/21 15:45 Received: 03/12/21 17:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:55		
pH	5.72	Std. Units			1		03/22/21 11:55		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Cobalt	0.35	mg/L	0.025	0.0019	5	03/23/21 13:05	03/24/21 13:17	7440-48-4	
Lithium	0.019J	mg/L	0.15	0.0040	5	03/23/21 13:05	03/24/21 13:17	7439-93-2	D3

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-68 **Lab ID: 92527018009** Collected: 03/11/21 11:05 Received: 03/12/21 17:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	CUSTOMER				1		03/22/21 11:55		
pH	6.78	Std. Units			1		03/22/21 11:55		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	0.47	mg/L	0.025	0.0039	5	03/23/21 13:05	03/24/21 13:22	7440-38-2	
Molybdenum	0.18	mg/L	0.050	0.0034	5	03/23/21 13:05	03/24/21 13:22	7439-98-7	

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-73 **Lab ID: 92527018010** Collected: 03/11/21 14:52 Received: 03/12/21 17:23 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		03/22/21 11:55		
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pH	6.71	Std. Units			1		03/22/21 11:55		
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6020 MET ICPMS

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

Arsenic	0.012J	mg/L	0.025	0.0039	5	03/23/21 13:05	03/24/21 13:28	7440-38-2	D3
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-79		Lab ID: 92527018011		Collected: 03/11/21 16:35		Received: 03/12/21 17:23		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:55		
pH	5.05	Std. Units			1		03/22/21 11:55		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Lithium	ND	mg/L	0.15	0.0040	5	03/23/21 13:05	03/24/21 13:34	7439-93-2	D3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-88 **Lab ID: 92524831026** Collected: 03/05/21 11:25 Received: 03/05/21 16:16 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		03/22/21 11:48		
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pH	5.21	Std. Units			1		03/22/21 11:48		
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6020 MET ICPMS

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

Cobalt	0.022	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 15:28	7440-48-4	
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Sample: B-77		Lab ID: 92524831029		Collected: 03/04/21 12:22		Received: 03/05/21 16:16		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:48		
pH	6.33	Std. Units			1		03/22/21 11:48		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Cobalt	0.0017J	mg/L	0.0050	0.00038	1	03/17/21 09:55	03/17/21 16:03	7440-48-4	
Lithium	0.0011J	mg/L	0.030	0.00081	1	03/17/21 09:55	03/17/21 16:03	7439-93-2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH RISK EVAL
 Pace Project No.: 92527018

QC Batch: 607169 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524831026, 92524831029

METHOD BLANK: 3198666 Matrix: Water
 Associated Lab Samples: 92524831026, 92524831029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0050	0.00038	03/17/21 15:11	
Lithium	mg/L	ND	0.030	0.00081	03/17/21 15:11	

LABORATORY CONTROL SAMPLE: 3198667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3198668 3198669

Parameter	Units	92524831026		3198669		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Cobalt	mg/L	0.022	0.1	0.1	0.11	92	94	75-125	2	20	
Lithium	mg/L		0.1	0.1	0.12	87	92	75-125	3	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

QC Batch:	608528	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92527018001, 92527018002, 92527018003, 92527018004, 92527018005, 92527018006, 92527018008, 92527018009, 92527018010, 92527018011		

METHOD BLANK:	3205426	Matrix:	Water
Associated Lab Samples:	92527018001, 92527018002, 92527018003, 92527018004, 92527018005, 92527018006, 92527018008, 92527018009, 92527018010, 92527018011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00078	03/23/21 18:59	
Cobalt	mg/L	ND	0.0050	0.00038	03/23/21 18:59	
Lithium	mg/L	ND	0.030	0.00081	03/23/21 18:59	
Molybdenum	mg/L	ND	0.010	0.00069	03/23/21 18:59	

LABORATORY CONTROL SAMPLE: 3205427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.092	92	80-120	
Cobalt	mg/L	0.1	0.091	91	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3205457 3205458

Parameter	Units	3205457		3205458		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Arsenic	mg/L	0.0016J	0.1	0.095	0.091	93	89	75-125	4	20	
Cobalt	mg/L	0.012	0.1	0.10	0.10	90	88	75-125	1	20	
Lithium	mg/L	0.0059J	0.1	0.096	0.094	90	89	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.097	0.093	96	93	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: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT MCDONOUGH RISK EVAL

Pace Project No.: 92527018

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524831026	B-88				
92524831029	B-77				
92527018001	B-54				
92527018002	B-64				
92527018003	B-66				
92527018004	B-82				
92527018005	B-78				
92527018006	B-63				
92527018008	B-76				
92527018009	B-68				
92527018010	B-73				
92527018011	B-79				
92524831026	B-88	EPA 3005A	607169	EPA 6020B	607293
92524831029	B-77	EPA 3005A	607169	EPA 6020B	607293
92527018001	B-54	EPA 3005A	608528	EPA 6020B	608679
92527018002	B-64	EPA 3005A	608528	EPA 6020B	608679
92527018003	B-66	EPA 3005A	608528	EPA 6020B	608679
92527018004	B-82	EPA 3005A	608528	EPA 6020B	608679
92527018005	B-78	EPA 3005A	608528	EPA 6020B	608679
92527018006	B-63	EPA 3005A	608528	EPA 6020B	608679
92527018008	B-76	EPA 3005A	608528	EPA 6020B	608679
92527018009	B-68	EPA 3005A	608528	EPA 6020B	608679
92527018010	B-73	EPA 3005A	608528	EPA 6020B	608679
92527018011	B-79	EPA 3005A	608528	EPA 6020B	608679

REPORT OF LABORATORY ANALYSIS

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Department Name
 Sample Collection Location (Site ID)
 Date of Collection
 F-2024-000-Rev. 01

Department Revised Date: 10, 2020
 Page 1 of 1
 Issued by: [Signature]
 Field Laboratory Office

Laboratory receiving samples

Alabama Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland Massachusetts Michigan Minnesota Missouri Montana Nebraska Nevada New Hampshire New Jersey New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming

Project Information

Client Name: Col Power
 Project ID: _____
 County: _____
 State: _____

Project ID: _____

Consider Problem? No Yes Not Sure No Yes

Submitter's Personal or Business Contact: [Signature]

Seeking Material? Bulk Material Bulk Samples More Other

Biological Target (Insect)? Yes No N/A

Transmission: Direct Indirect Other

Access Point: 11E Corrective Action: 4-2
 Address/Subject: 4-2-4

Sample should be stored according to: EPA OSHA Other Other

Control Sample Details (EPA): 4-2
 USDA Regulated Soil (EPA) (N/A) (see page 2)

Do samples require special handling or are they in a restricted area? (Yes/No) (check word)

Do samples require special handling or are they in a restricted area? (Yes/No) (check word)

Control Sample Details (EPA)	Yes	No	Other	Priority
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12
Control Sample Details (EPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13

Control Sample Details (EPA) Yes No

Control Sample Details (EPA) Yes No

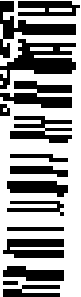
Control Sample Details (EPA) Yes No

Control Sample Details (EPA) Yes No

Control Sample Details (EPA) Yes No

12/12/18

CHAIRMAN OF SELECTED JUDICIAL Nominations Board

NO# : 92527018

 12/12/18

Form No. 1 - 1/18

1. Name of the Candidate	2. Name of the Party	3. Name of the Constituency	4. Name of the District
5. Name of the Polling Station	6. Name of the Constituency	7. Name of the District	8. Name of the State
9. Name of the Candidate	10. Name of the Party	11. Name of the Constituency	12. Name of the District

Sl. No.	Name of the Candidate	Name of the Party	Name of the Constituency	Name of the District	Name of the State	Date of Birth		Date of Declaration	Date of Filing	Date of Withdrawal	Date of Rejection	Date of Appeal	Date of Disposal
						DD	MM						
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Signature of the Candidate

2

CHAIN-OF-CUSTODY / Analytical Request Document
 This document is used to document the collection, handling, and analysis of evidence.

Form No. 104

Section 1: Agency/Case Information
 Section 2: Incident/Event Information
 Section 3: Sample Information
 Section 4: Chain of Custody
 Section 5: Laboratory Information
 Section 6: Analytical Results
 Section 7: Comments/Remarks

Sample ID	Description	Quantity	Unit	Collection Date		Collection Time		Collection Location		Collector	Receiver	Date	Signature
				MM	DD	HH	MM	Address	City					State	Zip
101
102
103
104
105

Sample ID	Description	Quantity	Unit	Collection Date	Collection Time	Collection Location	Collector	Receiver	Date	Signature
101
102
103
104
105

2

CHAIN OF CUSTODY / ANALYTICAL REPORT DOCUMENT
 For Quanta Quantities - ICP-AES (ICP-AES) - as shown in the following summary:

Section 1: General Information
 Project Name: _____
 Sample ID: _____
 Date: _____
 Location: _____

Section 2: Sampling Information
 Date: _____
 Time: _____
 Sampler Name: _____
 Method: _____
 Frequency: _____

Section 3: Analysis Information
 Method: _____
 Instrument: _____
 Reagents: _____
 Standards: _____
 Calibration: _____
 Quality Control: _____
 Analyst: _____
 Date: _____

Section 4: Sample Details

Sample ID	Element	Concentration (ppm)	Units	Remarks
01	As	0.05	ppm	
02	Cd	0.01	ppm	
03	Cu	0.5	ppm	
04	Pb	0.1	ppm	
05	Fe	10	ppm	
06	Mn	5	ppm	
07	Ni	0.2	ppm	
08	Zn	1	ppm	
09	Ag	0.01	ppm	
10	Al	100	ppm	
11	B	0.1	ppm	
12	Ca	10	ppm	
13	Co	0.05	ppm	
14	Cr	0.1	ppm	
15	K	100	ppm	
16	Li	0.01	ppm	
17	Mg	10	ppm	
18	Mo	0.01	ppm	
19	Na	100	ppm	
20	S	10	ppm	
21	Ti	0.1	ppm	
22	V	0.01	ppm	
23	W	0.01	ppm	
24	X	0.01	ppm	
25	Y	0.01	ppm	
26	Zr	0.01	ppm	

Section 5: Summary
 Total Sample Weight: _____
 Total Volume: _____
 Date: _____
 Signature: _____



CHANDLER-GUSTAVSON Analytical Reagent Procurement
 For Department of Environmental Services, City of Chandler, AZ

Requester: *[Name]*
 Date: *[Date]*

Page: *1* of *2*

Requester Name	<i>[Name]</i>	Requester Title	<i>[Title]</i>
Requester Department	<i>[Department]</i>	Requester Phone	<i>[Phone]</i>
Requester Email	<i>[Email]</i>	Requester Fax	<i>[Fax]</i>
Requester Address	<i>[Address]</i>		
Requester City	<i>[City]</i>	Requester State	<i>[State]</i>
Requester Zip	<i>[Zip]</i>	Requester Country	<i>[Country]</i>
Requester Notes	<i>[Notes]</i>		

Item #	Description	Quantity	Unit	Manufacturer	Part Number	Lot Number	Expiration Date	Analysis Test	Type	Requester Department	Requester Name	Requester Title	Requester Phone	Requester Email	Requester Address	Requester City	Requester State	Requester Zip	Requester Country	
																				Analysis Test	Type
1	SAMPLE NO																			
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Requester Name: *[Name]*

Requester Title: *[Title]*

Requester Department: *[Department]*

Requester Phone: *[Phone]*

Requester Email: *[Email]*

Requester Address: *[Address]*

Requester City: *[City]*

Requester State: *[State]*

Requester Zip: *[Zip]*

Requester Country: *[Country]*

Signature
Date

CHAIN OF CUSTODY / Analytical Request Worksheet

Page 1 of 1

Requester	Request #	Request Date	Request Location
CYBER			
Case #	Requestor	Requestor Title	Requestor Agency
100-111111			
Requestor Phone	Requestor Email	Requestor Fax	Requestor Address
Requestor City	Requestor State	Requestor Zip	Requestor Country
Requestor Agency	Requestor Case #	Requestor Case Title	Requestor Case Description
Requestor Agency Address	Requestor Agency City	Requestor Agency State	Requestor Agency Zip

SAMPLE ID	ANALYSIS	DATE	TIME	BY	NO.	ANALYSIS		RESULTS		ANALYST
						PERCENTAGE	UNIT	PERCENTAGE	UNIT	

B-1010	GC/MS	08/29	11:55	MS	7	97.5	GC	97.5	MS	MS	
B-1010	GC/MS	08/29	11:55	MS	6	98.5	GC	98.5	MS	MS	
B-1010	GC/MS	08/29	09:55	MS	5	98.5	GC	98.5	MS	MS	

Requester Name	Requester Title	Requester Agency	Requester Address	Requester City	Requester State	Requester Zip	Requester Phone	Requester Email	Requester Fax	Requester Agency Website
CYBER										
Requester Agency Address	Requester Agency City	Requester Agency State	Requester Agency Zip	Requester Agency Phone	Requester Agency Fax	Requester Agency Website	Requester Agency Email	Requester Agency Filing Info	Requester Agency Other Info	Requester Agency Other Info

Requester Agency Name	Requester Agency Address	Requester Agency City	Requester Agency State	Requester Agency Zip	Requester Agency Phone	Requester Agency Fax	Requester Agency Website	Requester Agency Email	Requester Agency Filing Info	Requester Agency Other Info
Requester Agency Name	Requester Agency Address	Requester Agency City	Requester Agency State	Requester Agency Zip	Requester Agency Phone	Requester Agency Fax	Requester Agency Website	Requester Agency Email	Requester Agency Filing Info	Requester Agency Other Info

June 03, 2021

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

RE: Project: MCDONOUGH AP-1 RADS
Pace Project No.: 92526280

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 09, 2021 and March 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

Revision 1 - This report replaces the April 2, 2021 report. This project was revised on April 28, 2021 in order to reflect the cancellation of Sample 92526280-001/B-74 as per client request. (Greensburg, PA)

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: 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-1 RADS
Pace Project No.: 92526280

Pace Analytical Services Pennsylvania

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCDONOUGH AP-1 RADS
Pace Project No.: 92526280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526280002	B-100	Water	03/08/21 14:23	03/09/21 09:30
92526280003	B-105D	Water	03/08/21 13:30	03/09/21 09:30
92527005010	B-110D	Water	03/16/21 12:20	03/17/21 09:12

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-1 RADS

Pace Project No.: 92526280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526280002	B-100	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92526280003	B-105D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527005010	B-110D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	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 AP-1 RADS

Pace Project No.: 92526280

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-100 Lab ID: 92526280002 Collected: 03/08/21 14:23 Received: 03/09/21 09:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.145 ± 0.162 (0.314) C:82% T:NA	pCi/L	03/26/21 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0231 ± 0.379 (0.871) C:72% T:83%	pCi/L	04/01/21 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.168 ± 0.541 (1.19)	pCi/L	04/02/21 14:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-1 RADS

Pace Project No.: 92526280

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: B-105D Lab ID: 92526280003 Collected: 03/08/21 13:30 Received: 03/09/21 09:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.363 ± 0.286 (0.524) C:69% T:NA	pCi/L	03/26/21 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.51 ± 0.560 (0.863) C:77% T:78%	pCi/L	04/01/21 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.87 ± 0.846 (1.39)	pCi/L	04/02/21 14:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-1 RADS

Pace Project No.: 92526280

Sample: B-110D **Lab ID: 92527005010** Collected: 03/16/21 12:20 Received: 03/17/21 09:12 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 9315	0.447 ± 0.243 (0.341) C:73% T:NA	pCi/L	04/05/21 09:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.809 ± 0.443 (0.811) C:72% T:85%	pCi/L	04/09/21 15:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.26 ± 0.686 (1.15)	pCi/L	04/12/21 12:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-1 RADS

Pace Project No.: 92526280

QC Batch: 440194

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2125114

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.922 ± 0.466 (0.823) C:75% T:77%	pCi/L	04/07/21 12:38	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-1 RADS

Pace Project No.: 92526280

QC Batch: 440196

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92527005010

METHOD BLANK: 2125122

Matrix: Water

Associated Lab Samples: 92527005010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.624 ± 0.351 (0.633) C:78% T:86%	pCi/L	04/09/21 12:05	

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-1 RADS

Pace Project No.: 92526280

QC Batch: 439298

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92526280002, 92526280003

METHOD BLANK: 2120869

Matrix: Water

Associated Lab Samples: 92526280002, 92526280003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.265 ± 0.289 (0.590) C:61% T:NA	pCi/L	03/26/21 10:47	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-1 RADS

Pace Project No.: 92526280

QC Batch: 439300

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92526280002, 92526280003

METHOD BLANK: 2120874

Matrix: Water

Associated Lab Samples: 92526280002, 92526280003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.143 ± 0.352 (0.785) C:76% T:73%	pCi/L	04/01/21 12:42	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-1 RADS

Pace Project No.: 92526280

QC Batch: 440497

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92527005010

METHOD BLANK: 2126659

Matrix: Water

Associated Lab Samples: 92527005010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0621 ± 0.152 (0.366) C:63% T:NA	pCi/L	04/05/21 07:59	

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-1 RADS

Pace Project No.: 92526280

QC Batch: 439773

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2123469

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0133 ± 0.113 (0.309) C:70% T:NA	pCi/L	03/29/21 07:58	

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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QUALIFIERS

Project: MCDONOUGH AP-1 RADS

Pace Project No.: 92526280

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-1 RADS

Pace Project No.: 92526280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526280002	B-100	EPA 9315	439298		
92526280003	B-105D	EPA 9315	439298		
92527005010	B-110D	EPA 9315	440497		
92526280002	B-100	EPA 9320	439300		
92526280003	B-105D	EPA 9320	439300		
92527005010	B-110D	EPA 9320	440196		
92526280002	B-100	Total Radium Calculation	441617		
92526280003	B-105D	Total Radium Calculation	441617		
92527005010	B-110D	Total Radium Calculation	442867		

REPORT OF LABORATORY ANALYSIS

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Document Number:
Sample Condition Upon Receipt (SCUR)

Document Revised: October 28, 2020
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Analytical Quality Office

Laboratory receiving samples:

Ashville Eder Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

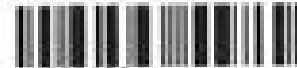
Sample Condition Upon Receipt

Client Name:

Get power

Project #

W0# : 92526280



92526280

Carrier:
 Commercial

Fed Ex UPS USPS Client
 Pace Other

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: AC 11/9/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Media Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 253

Type of Ice:

Ice Blue None

Cooler Temp:

2.7

Correction Factor:
Add/Subtract (°C)

± 0.4

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

2.3

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 (H22 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Blank 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>✓</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 sp1's containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SMF Review: _____

Date: _____



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

Document Revised: October 28, 2020
 Page 3 of 3
 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, TDC, Oil and Grease, DRG/RO15 (water) DOC, UHG

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

Project #

WO#: 92526280

PR: KLH1

Due Date: 03/30/21

CLIENT: GA-GA Feuer

Sample	BP40-125 ml, Plastic Unpreserved (N/A) (C-)	BP70-250 ml, Plastic Unpreserved (N/A)	BP100-500 ml, Plastic Unpreserved (N/A)	BP100-1 liter Plastic Unpreserved (N/A)	BP40-125 ml, Plastic HD304 (pH < 2) (C-)	BP70-250 ml, plastic HD31 (pH < 2)	BP40-125 ml, Plastic (2) Acrylic & Nylon (N/A)	BP40-125 ml, Plastic Nylon (pH > 12) (C-)	WFOU-sterile-moulded Glass jar Unpreserved	AD100-1 liter Amber Unpreserved (N/A) (C-)	AD100-1 liter Amber HD (pH < 2)	AD100-250 ml, Amber Unpreserved (N/A) (C-)	AD100-1 liter Amber HD304 (pH < 2)	AD100-250 ml, Amber HD304 (pH < 2)	AD100(200MA)-250 ml, Amber HD31 (N/A)(C-)	DO100-40 ml, VOA HD (N/A)	VOST-40 ml, VOA HD304 (N/A)	VOST-40 ml, VOA HD (N/A)	DO100-40 ml, VOA HD304 (N/A)	VOST (8 vials per 100-500 lit) (N/A)	VOST (8 vials per 100-500 lit) (N/A)	VOST (8 vials per 100-500 lit) (N/A)	SP100-125 ml, Sterile Plastic (N/A - 1st)	SP100-250 ml, Sterile Plastic (N/A - 1st)	SPIN	BP100-250 ml, Plastic (HD304) (pH < 2)	AD100-100 ml, Amber Unpreserved vials (N/A)	VOST-20 ml, Sterilization vials (N/A)	DO100-40 ml, Amber Unpreserved vials (N/A)				
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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 Permit Certification Office (i.e. Out of field, incorrect preservative, out of temp, incorrect containers).



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

Page: 1 of 1

Section 1: Requester Information Agency: <u>San Diego County Sheriff's Department</u> Requester Name: <u>Det. [Name]</u> Requester Title: <u>Officer</u> Agency Address: <u>San Diego, CA 92161</u> Agency Phone: <u>(619) 425-1234</u> Request Date: <u>5/1/2011</u>	Section 2: Analytical Information Analytical Request: <u>GC/MS/FTIR, Case Identification, Evidence</u> Case No.: <u>11-000000</u> Evidence ID: <u>11-000000-001</u> Requested By: <u>[Name]</u> Requested For: <u>[Name]</u> Requested For Title: <u>[Title]</u>	Section 3: Sample Information Sample ID: <u>11-000000-001</u> Sample Description: <u>[Description]</u> Sample Quantity: <u>[Quantity]</u> Sample Location: <u>[Location]</u> Sample Date: <u>[Date]</u>
--	---	---

ITEM #	DESCRIPTION OF SAMPLE	DATE RECEIVED	TIME RECEIVED	BY WHOM RECEIVED	AGENCY OF ORIGIN	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYSIS METHOD	ANALYSIS TESTS	ANALYST	LABORATORY	DATE OF REPORT	TIME OF REPORT	BY WHOM REPORTED	AGENCY OF DESTINATION	DATE OF DELIVERY	TIME OF DELIVERY	BY WHOM DELIVERED	AGENCY OF DESTINATION
1	SAMPLE ID Date Received per box Sample per box per tag	5/1/11	10:00	[Name]	San Diego County Sheriff's Dept	5/1/11	10:00	GC/MS/FTIR	GC/MS/FTIR, Case Identification, Evidence	[Name]	San Diego County Sheriff's Dept	5/1/11	10:00	[Name]	San Diego County Sheriff's Dept	5/1/11	10:00	[Name]	San Diego County Sheriff's Dept
2																			
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15																			

LABORATORY USE ONLY

ANALYST: [Name]

LABORATORY: [Name]

DATE OF REPORT: [Date]

TIME OF REPORT: [Time]

BY WHOM REPORTED: [Name]

AGENCY OF DESTINATION: [Name]

DATE OF DELIVERY: [Date]

TIME OF DELIVERY: [Time]

BY WHOM DELIVERED: [Name]

AGENCY OF DESTINATION: [Name]

CHAIN OF CUSTODY - Analytical Request Document

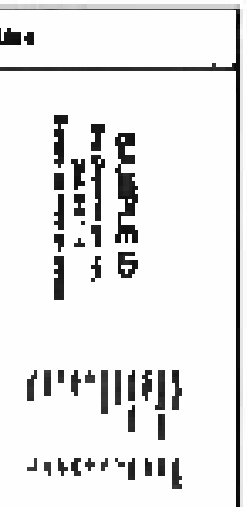
Section 1 - Requesting Agency Information

Requesting Agency Name: []
Requesting Agency Address: []
Requesting Agency Contact Person: []
Requesting Agency Contact Phone: []
Requesting Agency Contact Email: []
Requesting Agency Website: []
Requesting Agency Logo: []

Section 2 - Sample Information

Sample ID: []
Sample Type: []
Sample Quantity: []
Sample Description: []
Sample Collection Date: []
Sample Collection Location: []

Page [] of []



Analysis Method: []

Method	Standard	Lot	Expiration Date
[]	[]	[]	[]

Analysis Test:

Test	Result
[]	[]
[]	[]
[]	[]

Analysis Reference:

Reference	Result
[]	[]
[]	[]
[]	[]

No.	Date	Initials	Signature	Department	Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Signature: [] Date: 3/13/21

Signature: [] Date: 3/13/21

Requesting Agency Representative:

Signature: [] Date: 3/13/21

Quality Control Sample Performance Assessment

Assessing Accuracy and Control Sample Performance

Date: 11/24/2014
 Time: 10:00 AM
 Location: 10000
 Operator: [Signature]

Sample ID	Sample Description	Target Value	Observed Value	Accuracy (%)
1
2
3
4
5
6
7
8
9
10

Sample ID	Sample Description	Target Value	Observed Value	Accuracy (%)
11
12
13
14
15
16
17
18
19
20

Sample ID	Sample Description	Target Value	Observed Value	Accuracy (%)
21
22
23
24
25
26
27
28
29
30

Assessing Accuracy and Control Sample Performance

Comments

[Signature]

11/24/2014

Quality Control Sample Performance Assessment



2. Analyze the data and compare the results to the established control limits.

Control Chart	Control Chart	Control Chart	Control Chart
<p>Control Chart</p> <p>Upper Control Limit</p> <p>Lower Control Limit</p> <p>Center Line</p> <p>Upper Warning Limit</p> <p>Lower Warning Limit</p> <p>Upper Action Limit</p> <p>Lower Action Limit</p>	<p>Control Chart</p> <p>Upper Control Limit</p> <p>Lower Control Limit</p> <p>Center Line</p> <p>Upper Warning Limit</p> <p>Lower Warning Limit</p> <p>Upper Action Limit</p> <p>Lower Action Limit</p>	<p>Control Chart</p> <p>Upper Control Limit</p> <p>Lower Control Limit</p> <p>Center Line</p> <p>Upper Warning Limit</p> <p>Lower Warning Limit</p> <p>Upper Action Limit</p> <p>Lower Action Limit</p>	<p>Control Chart</p> <p>Upper Control Limit</p> <p>Lower Control Limit</p> <p>Center Line</p> <p>Upper Warning Limit</p> <p>Lower Warning Limit</p> <p>Upper Action Limit</p> <p>Lower Action Limit</p>
<p>Control Chart</p> <p>Upper Control Limit</p> <p>Lower Control Limit</p> <p>Center Line</p> <p>Upper Warning Limit</p> <p>Lower Warning Limit</p> <p>Upper Action Limit</p> <p>Lower Action Limit</p>	<p>Control Chart</p> <p>Upper Control Limit</p> <p>Lower Control Limit</p> <p>Center Line</p> <p>Upper Warning Limit</p> <p>Lower Warning Limit</p> <p>Upper Action Limit</p> <p>Lower Action Limit</p>	<p>Control Chart</p> <p>Upper Control Limit</p> <p>Lower Control Limit</p> <p>Center Line</p> <p>Upper Warning Limit</p> <p>Lower Warning Limit</p> <p>Upper Action Limit</p> <p>Lower Action Limit</p>	<p>Control Chart</p> <p>Upper Control Limit</p> <p>Lower Control Limit</p> <p>Center Line</p> <p>Upper Warning Limit</p> <p>Lower Warning Limit</p> <p>Upper Action Limit</p> <p>Lower Action Limit</p>

[Handwritten signature]



May 13, 2021

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

RE: Project: MCDONOUGH AP-1
Pace Project No.: 92526286

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 09, 2021 and March 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,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

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-1

Pace Project No.: 92526286

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: MCDONOUGH AP-1
Pace Project No.: 92526286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526286002	B-100	Water	03/08/21 14:23	03/09/21 09:30
92526286003	B-105D	Water	03/08/21 13:30	03/09/21 09:30
92526996010	B-110D	Water	03/16/21 12:20	03/17/21 09:12

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92526286002	B-100	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92526286003	B-105D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92526996010	B-110D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

Sample: B-100		Lab ID: 92526286002		Collected: 03/08/21 14:23		Received: 03/09/21 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:50		
pH	5.32	Std. Units			1		03/22/21 11:50		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	47.7	mg/L	1.0	0.070	1	03/15/21 14:10	03/19/21 03:59	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0017J	mg/L	0.0030	0.00028	1	03/15/21 14:35	03/16/21 15:18	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/15/21 14:35	03/16/21 15:18	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00071	1	03/15/21 14:35	03/16/21 15:18	7440-39-3	
Beryllium	0.00046J	mg/L	0.00050	0.000046	1	03/15/21 14:35	03/16/21 15:18	7440-41-7	
Boron	0.24	mg/L	0.040	0.0052	1	03/15/21 14:35	03/16/21 15:18	7440-42-8	
Cadmium	0.00027J	mg/L	0.00050	0.00012	1	03/15/21 14:35	03/16/21 15:18	7440-43-9	
Chromium	0.00057J	mg/L	0.0050	0.00055	1	03/15/21 14:35	03/16/21 15:18	7440-47-3	
Cobalt	0.029	mg/L	0.0050	0.00038	1	03/15/21 14:35	03/16/21 15:18	7440-48-4	
Lead	0.00018J	mg/L	0.0010	0.000036	1	03/15/21 14:35	03/16/21 15:18	7439-92-1	
Lithium	0.0024J	mg/L	0.030	0.00081	1	03/15/21 14:35	03/16/21 15:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/15/21 14:35	03/16/21 15:18	7439-98-7	
Selenium	0.0019J	mg/L	0.0050	0.0016	1	03/15/21 14:35	03/16/21 15:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/15/21 14:35	03/16/21 15:18	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	660	mg/L	20.0	20.0	1		03/10/21 17:22		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	12.9	mg/L	1.0	0.60	1		03/16/21 09:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/16/21 09:54	16984-48-8	
Sulfate	388	mg/L	8.0	4.0	8		03/16/21 16:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-1
 Pace Project No.: 92526286

Sample: B-105D	Lab ID: 92526286003	Collected: 03/08/21 13:30		Received: 03/09/21 09:30		Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:50		
pH	6.37	Std. Units			1		03/22/21 11:50		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	79.6	mg/L	1.0	0.070	1	03/15/21 14:10	03/19/21 04:03	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00069J	mg/L	0.0030	0.00028	1	03/15/21 14:35	03/16/21 15:24	7440-36-0	B
Arsenic	0.0025J	mg/L	0.0050	0.00078	1	03/15/21 14:35	03/16/21 15:24	7440-38-2	
Barium	0.041	mg/L	0.0050	0.00071	1	03/15/21 14:35	03/16/21 15:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/15/21 14:35	03/16/21 15:24	7440-41-7	
Boron	0.64	mg/L	0.040	0.0052	1	03/15/21 14:35	03/16/21 15:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/15/21 14:35	03/16/21 15:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/15/21 14:35	03/16/21 15:24	7440-47-3	
Cobalt	0.0042J	mg/L	0.0050	0.00038	1	03/15/21 14:35	03/16/21 15:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/15/21 14:35	03/16/21 15:24	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00081	1	03/15/21 14:35	03/16/21 15:24	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00069	1	03/15/21 14:35	03/16/21 15:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/15/21 14:35	03/16/21 15:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/15/21 14:35	03/16/21 15:24	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	477	mg/L	10.0	10.0	1		03/10/21 17:22		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	17.4	mg/L	1.0	0.60	1		03/16/21 10:08	16887-00-6	
Fluoride	0.32	mg/L	0.10	0.050	1		03/16/21 10:08	16984-48-8	
Sulfate	228	mg/L	5.0	2.5	5		03/16/21 16:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

Sample: B-110D **Lab ID: 92526996010** Collected: 03/16/21 12:20 Received: 03/17/21 09:12 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		03/22/21 11:56		
pH	7.53	Std. Units			1		03/22/21 11:56		

6010D ATL ICP

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

Calcium	49.9	mg/L	1.0	0.070	1	03/24/21 10:08	03/24/21 16:28	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	0.00028	1	03/24/21 10:11	03/24/21 18:22	7440-36-0	
Arsenic	0.0036J	mg/L	0.0050	0.00078	1	03/24/21 10:11	03/24/21 18:22	7440-38-2	
Barium	0.0061	mg/L	0.0050	0.00071	1	03/24/21 10:11	03/24/21 18:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/24/21 10:11	03/24/21 18:22	7440-41-7	
Boron	0.28	mg/L	0.040	0.0052	1	03/24/21 10:11	03/24/21 18:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/24/21 10:11	03/24/21 18:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/24/21 10:11	03/24/21 18:22	7440-47-3	
Cobalt	0.00083J	mg/L	0.0050	0.00038	1	03/24/21 10:11	03/24/21 18:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/24/21 10:11	03/24/21 18:22	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00081	1	03/24/21 10:11	03/24/21 18:22	7439-93-2	
Molybdenum	0.076	mg/L	0.010	0.00069	1	03/24/21 10:11	03/24/21 18:22	7439-98-7	
Selenium	0.0016J	mg/L	0.0050	0.0016	1	03/24/21 10:11	03/24/21 18:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/24/21 10:11	03/24/21 18:22	7440-28-0	

2540C Total Dissolved Solids

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

Total Dissolved Solids	194	mg/L	10.0	10.0	1		03/22/21 15:50		
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300.0 IC Anions 28 Days

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

Chloride	2.0	mg/L	1.0	0.60	1		03/20/21 21:17	16887-00-6	
Fluoride	0.76	mg/L	0.10	0.050	1		03/20/21 21:17	16984-48-8	
Sulfate	51.4	mg/L	1.0	0.50	1		03/20/21 21:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1
 Pace Project No.: 92526286

QC Batch: 606634 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526286002, 92526286003

METHOD BLANK: 3196175 Matrix: Water
 Associated Lab Samples: 92526286002, 92526286003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/19/21 03:10	

LABORATORY CONTROL SAMPLE: 3196176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196177 3196178

Parameter	Units	3196177		3196178		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	207	1	1	209	202	181	-447	75-125	3	20 M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

QC Batch: 608824

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526996010

METHOD BLANK: 3206694

Matrix: Water

Associated Lab Samples: 92526996010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/24/21 15:04	

LABORATORY CONTROL SAMPLE: 3206695

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: 3206696 3206697

Parameter	Units	3206696		3206697		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	54.2	1	55.7	55.2	157	106	75-125	1	20	M1

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

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

QC Batch:	606644	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526286002, 92526286003

METHOD BLANK: 3196234 Matrix: Water

Associated Lab Samples: 92526286002, 92526286003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00035J	0.0030	0.00028	03/16/21 14:38	
Arsenic	mg/L	ND	0.0050	0.00078	03/16/21 14:38	
Barium	mg/L	ND	0.0050	0.00071	03/16/21 14:38	
Beryllium	mg/L	ND	0.00050	0.000046	03/16/21 14:38	
Boron	mg/L	ND	0.040	0.0052	03/16/21 14:38	
Cadmium	mg/L	ND	0.00050	0.00012	03/16/21 14:38	
Chromium	mg/L	ND	0.0050	0.00055	03/16/21 14:38	
Cobalt	mg/L	ND	0.0050	0.00038	03/16/21 14:38	
Lead	mg/L	ND	0.0010	0.000036	03/16/21 14:38	
Lithium	mg/L	ND	0.030	0.00081	03/16/21 14:38	
Molybdenum	mg/L	ND	0.010	0.00069	03/16/21 14:38	
Selenium	mg/L	ND	0.0050	0.0016	03/16/21 14:38	
Thallium	mg/L	ND	0.0010	0.00014	03/16/21 14:38	

LABORATORY CONTROL SAMPLE: 3196235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.096	96	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.094	94	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196236 3196237

Parameter	Units	92526031002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Conc.	Spike Conc.	Result	Result						
Antimony	mg/L	0.00079J	0.1	0.1	0.098	0.099	98	98	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

Parameter	Units	3196236		3196237		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526031002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.016	0.1	0.1	0.11	0.11	96	95	75-125	1	20		
Beryllium	mg/L	0.000097J	0.1	0.1	0.083	0.080	82	80	75-125	3	20		
Boron	mg/L	0.36	1	1	1.2	1.2	84	83	75-125	1	20		
Cadmium	mg/L	0.017	0.1	0.1	0.11	0.11	96	95	75-125	1	20		
Chromium	mg/L	0.00080J	0.1	0.1	0.092	0.092	92	91	75-125	0	20		
Cobalt	mg/L	0.019	0.1	0.1	0.11	0.11	93	92	75-125	1	20		
Lead	mg/L	0.00017J	0.1	0.1	0.088	0.087	88	86	75-125	2	20		
Lithium	mg/L	0.026J	0.1	0.1	0.11	0.11	82	81	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.093	0.092	93	91	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.097	100	96	75-125	4	20		
Thallium	mg/L	ND	0.1	0.1	0.089	0.087	89	86	75-125	3	20		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

QC Batch: 608839

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526996010

METHOD BLANK: 3206767

Matrix: Water

Associated Lab Samples: 92526996010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00047J	0.0030	0.00028	03/24/21 16:25	
Arsenic	mg/L	ND	0.0050	0.00078	03/24/21 16:25	
Barium	mg/L	ND	0.0050	0.00071	03/24/21 16:25	
Beryllium	mg/L	ND	0.00050	0.000046	03/24/21 16:25	
Boron	mg/L	ND	0.040	0.0052	03/24/21 16:25	
Cadmium	mg/L	ND	0.00050	0.00012	03/24/21 16:25	
Chromium	mg/L	ND	0.0050	0.00055	03/24/21 16:25	
Cobalt	mg/L	ND	0.0050	0.00038	03/24/21 16:25	
Lead	mg/L	ND	0.0010	0.000036	03/24/21 16:25	
Lithium	mg/L	ND	0.030	0.00081	03/24/21 16:25	
Molybdenum	mg/L	ND	0.010	0.00069	03/24/21 16:25	
Selenium	mg/L	ND	0.0050	0.0016	03/24/21 16:25	
Thallium	mg/L	ND	0.0010	0.00014	03/24/21 16:25	

LABORATORY CONTROL SAMPLE: 3206768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3206769 3206770

Parameter	Units	92526996001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	0.00032J	0.1	0.1	0.11	0.11	107	109	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.10	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

Parameter	Units	3206769		3206770		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92526996001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.090	0.1	0.1	0.19	0.19	100	99	75-125	0	20		
Beryllium	mg/L	0.000061J	0.1	0.1	0.093	0.098	93	98	75-125	5	20		
Boron	mg/L	1.7	1	1	2.7	2.7	94	99	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.099	97	98	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20		
Lead	mg/L	0.000067J	0.1	0.1	0.096	0.095	95	95	75-125	0	20		
Lithium	mg/L	ND	0.1	0.1	0.095	0.096	95	95	75-125	0	20		
Molybdenum	mg/L	0.20	0.1	0.1	0.30	0.30	106	102	75-125	1	20		
Selenium	mg/L	0.0017J	0.1	0.1	0.094	0.095	93	94	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-1
 Pace Project No.: 92526286

QC Batch: 605516 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: 92526286002, 92526286003

METHOD BLANK: 3189891 Matrix: Water
 Associated Lab Samples: 92526286002, 92526286003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/10/21 17:21	

LABORATORY CONTROL SAMPLE: 3189892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	370	92	90-111	

SAMPLE DUPLICATE: 3189893

Parameter	Units	92524831026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L		800			

SAMPLE DUPLICATE: 3189894

Parameter	Units	92526337002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	415	425	2	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1
 Pace Project No.: 92526286

QC Batch: 608135 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: 92526996010

METHOD BLANK: 3203645 Matrix: Water
 Associated Lab Samples: 92526996010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/22/21 15:47	

LABORATORY CONTROL SAMPLE: 3203646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	388	97	90-111	

SAMPLE DUPLICATE: 3203647

Parameter	Units	92527943001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	494	490	1	10	

SAMPLE DUPLICATE: 3203649

Parameter	Units	92527835007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	255	298	16	10 D6	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

QC Batch: 606641	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: 92526286002, 92526286003

METHOD BLANK: 3196222 Matrix: Water

Associated Lab Samples: 92526286002, 92526286003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/16/21 04:09	
Fluoride	mg/L	ND	0.10	0.050	03/16/21 04:09	
Sulfate	mg/L	ND	1.0	0.50	03/16/21 04:09	

LABORATORY CONTROL SAMPLE: 3196223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196224 3196225

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527305006	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2170	50	50	2220	2220	100	95	90-110	0	10		
Fluoride	mg/L				8.8	8.5					3	10 M6	
Sulfate	mg/L				1800	1790					0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196226 3196227

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92527315001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	1620	50	50	1640	1650	49	61	90-110	0	10 M6		
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10 M6		
Sulfate	mg/L	25.1	50	50	70.0	71.8	90	93	90-110	2	10		

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

QC Batch:	607982	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: 92526996010

METHOD BLANK: 3202733 Matrix: Water

Associated Lab Samples: 92526996010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/20/21 17:54	
Fluoride	mg/L	ND	0.10	0.050	03/20/21 17:54	
Sulfate	mg/L	ND	1.0	0.50	03/20/21 17:54	

LABORATORY CONTROL SAMPLE: 3202734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.7	103	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	52.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3202737 3202738

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92528140001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	57.9	50	50	50	105	105	94	94	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	1.9	2.0	73	74	90-110	2	10	M6
Sulfate	mg/L	17.2	50	50	50	66.0	66.0	98	98	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3203204 3203205

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92528440001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	319	50	50	50	332	332	26	27	90-110	0	10	M6
Fluoride	mg/L	0.34	2.5	2.5	2.5	2.6	2.7	90	94	90-110	3	10	
Sulfate	mg/L	132	50	50	50	178	179	94	94	90-110	0	10	

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QUALIFIERS

Project: MCDONOUGH AP-1
Pace Project No.: 92526286

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-1

Pace Project No.: 92526286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526286002	B-100				
92526286003	B-105D				
92526996010	B-110D				
92526286002	B-100	EPA 3010A	606634	EPA 6010D	606723
92526286003	B-105D	EPA 3010A	606634	EPA 6010D	606723
92526996010	B-110D	EPA 3010A	608824	EPA 6010D	608893
92526286002	B-100	EPA 3005A	606644	EPA 6020B	606712
92526286003	B-105D	EPA 3005A	606644	EPA 6020B	606712
92526996010	B-110D	EPA 3005A	608839	EPA 6020B	608955
92526286002	B-100	SM 2540C-2011	605516		
92526286003	B-105D	SM 2540C-2011	605516		
92526996010	B-110D	SM 2540C-2011	608135		
92526286002	B-100	EPA 300.0 Rev 2.1 1993	606641		
92526286003	B-105D	EPA 300.0 Rev 2.1 1993	606641		
92526996010	B-110D	EPA 300.0 Rev 2.1 1993	607982		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Ashville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Laboratory Condition: **Wet Frozen**

Client Name: GA power

Project #: **WO# : 92526286**

Courier: Commercial Fed Ex UPS USPS Client Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: AC 11/9/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological ~~Not~~ Frozen? Yes No N/A

Thermometer: IR Gun ID: 233 Type of Ice: Fresh Blue None

Cooler Temp: 2.4 Correction Factor: ± 0.4 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 2.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? 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 (<22 hr.?)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Blank 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.
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>W F</u>				
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	10.
Trig Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.
Trig 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
 I-CAR-CS-033-Rev.07

Document Revised: October 18, 2020
 Page 3 of 3
 Issuing Authority:
 Pace Carolina Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRD/RO15 (water) DOC, UMG

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

Project #

WO# : 92526286

PH: KLH1

Due Date: 03/23/21

CLIENT: GR-GA Power

Row #	Item	1	2	3	4	5	6	7	8	9	10	11	12
	BP40-125 ml, Plastic, Unpreserved (N/A) (C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	BP100-250 ml, Plastic, Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP200-500 ml, Plastic, Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP100-1 liter Plastic, Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP40-125 ml, Plastic, n2504 (pH < 2) (C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	BP100-250 ml, plastic n2504 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	BP40-125 ml, Plastic 2N Acetic & NaOH (V)	/	/	/	/	/	/	/	/	/	/	/	/
	BP40-125 ml, Plastic NaOH (pH > 12) (C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	WSPF-100-1000 ml, Plastic, Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	AD100-1 liter Amber Unpreserved (N/A) (C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	AD100-1 liter Amber HCl (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AD100-250 ml, Amber, Unpreserved (N/A) (C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	AD100-1 liter Amber n2504 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AD100-250 ml, Amber n2504 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AD100(1000)-250 ml, Amber NH4Cl (N/A)(C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	DO100-40 ml, VOA HCl (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO100-40 ml, VOA Na2S2O3 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO100-40 ml, VOA Usp (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO100-40 ml, VOA n2504 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO100 (6 vials per 100-100) kit (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO100 (3 vials per 100-100) Kit kit (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	SP100-125 ml, Sterile Plastic (N/A - kit)	/	/	/	/	/	/	/	/	/	/	/	/
	SP100-250 ml, Sterile Plastic (N/A - kit)	/	/	/	/	/	/	/	/	/	/	/	/
	SP PIN	/	/	/	/	/	/	/	/	/	/	/	/
	BP100-250 ml, Plastic (n2504) (N/A)(C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	AD100-100 ml, Amber unpreserved vials (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VO100-10 ml, Scintillation vials (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	DO100-40 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 time, incorrect containers).



CHAIN-OF-CUSTODY / Analytical Request Document

This Chain-of-Custody is a UFGM DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Analytical Chain Information Agency: <u>San Diego County Sheriff's Department</u> Requester: <u>San Diego Sheriff</u> Request Date: <u>03/11/2011</u>		Section B Analytical Request Information Request No.: <u>20110001</u> Request Date: <u>03/11/2011</u> Requester: <u>San Diego Sheriff</u> Request Location: <u>San Diego Sheriff's Office</u>		Section C Sample Information Sample No.: <u>100</u> Sample Date: <u>03/11/2011</u> Sample Location: <u>San Diego Sheriff's Office</u>	
--	--	---	--	--	--

ITEM #	SAMPLE ID	QTY	UNIT	DATE	TIME	INITIALS	ANALYSIS REQUEST		ANALYSIS TEST	ANALYST	LAB	DATE	TIME	INITIALS	SIGNATURE
							TEST	REMARKS							
1	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
2	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
3	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
4	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
5	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
6	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
7	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
8	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
9	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
10	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
11	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
12	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
13	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
14	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	
15	100	1	unit	03/11/2011	08:35	PM	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	San Diego Sheriff's Office	03/11/2011	08:35	PM	San Diego Sheriff's Office	

Section D Additional Comments Additional Comments: <u>San Diego Sheriff's Office</u>		Section E Signature of Requester Signature: <u>San Diego Sheriff</u> Date: <u>03/11/2011</u>		Section F Signature of Analyst Signature: <u>San Diego Sheriff's Office</u> Date: <u>03/11/2011</u>	
---	--	--	--	---	--

CHAIN OF CUSTODY - Analytical Request Document
 The Chain of Custody is the SA, SO, or SGT in control of the sample in original packaging.

Page 1 of 1

Section 1: Analytical Request Information

Section 2: Analytical Request Information

Section 3: Analytical Request Information

Section 4: Analytical Request Information

Section 5: Analytical Request Information

Section 6: Analytical Request Information

Section 7: Analytical Request Information

Section 8: Analytical Request Information

Section 9: Analytical Request Information

Section 10: Analytical Request Information

Section 11: Analytical Request Information

Section 12: Analytical Request Information

Section 13: Analytical Request Information

Section 14: Analytical Request Information

Section 15: Analytical Request Information

Section 16: Analytical Request Information

Section 17: Analytical Request Information

Section 18: Analytical Request Information

Section 19: Analytical Request Information

Section 20: Analytical Request Information

Item #	Item Description	Quantity	Unit	Location	Container	Material	Analysis	Method	Result	Notes
1	QUARTER LB	1	lb							
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

Prepared by: [Signature]

Date: 3/13/21

Time: 11:11 AM

APPENDIX A

**Surface Water Laboratory Analytical Data
November 2020 & February 2021**



November 16, 2020

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92505233

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92505233

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92505233001	CR+0.4	Water	11/10/20 11:40	11/10/20 17:57
92505233002	CR+0.2	Water	11/10/20 11:50	11/10/20 17:57
92505233003	Dewatering Upstream	Water	11/10/20 11:55	11/10/20 17:57
92505233004	Dewatering Downstream	Water	11/10/20 12:25	11/10/20 17:57
92505233005	CR-0.2	Water	11/10/20 12:47	11/10/20 17:57
92505233006	CR-0.5	Water	11/10/20 12:55	11/10/20 17:57
92505233007	CR-0.8	Water	11/10/20 13:15	11/10/20 17:57

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92505233001	CR+0.4	EPA 6010D	DRB, KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		SM 2320B-2011	KDF1	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92505233002	CR+0.2	EPA 6010D	DRB, KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		SM 2320B-2011	KDF1	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92505233003	Dewatering Upstream	EPA 6010D	DRB, KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		SM 2320B-2011	KDF1	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92505233004	Dewatering Downstream	EPA 6010D	DRB, KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		SM 2320B-2011	KDF1	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92505233005	CR-0.2	EPA 6010D	DRB, KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		SM 2320B-2011	KDF1	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92505233006	CR-0.5	EPA 6010D	DRB, KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		SM 2320B-2011	KDF1	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92505233007	CR-0.8	EPA 6010D	DRB, KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		SM 2320B-2011	KDF1	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92505233

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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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.: 92505233

Sample: CR+0.4	Lab ID: 92505233001	Collected: 11/10/20 11:40	Received: 11/10/20 17:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data								
Analytical Method: Pace Analytical Services - Charlotte								
Performed by	Client			1		11/10/20 11:40		
pH	7.35	Std. Units		1		11/10/20 11:40		
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.4	mg/L	0.20	1	11/11/20 12:44	11/15/20 15:48	7440-09-7	
Sodium	5.4	mg/L	1.0	1	11/11/20 12:44	11/11/20 19:42	7440-23-5	M1
Calcium	4.2	mg/L	1.0	1	11/11/20 12:44	11/11/20 19:42	7440-70-2	M1
Magnesium	2.0	mg/L	0.050	1	11/11/20 12:44	11/11/20 19:42	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Beryllium	ND	mg/L	0.00050	1	11/11/20 12:31	11/11/20 16:04	7440-41-7	
Cobalt	ND	mg/L	0.0050	1	11/11/20 12:31	11/11/20 16:04	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	43.0	mg/L	10.0	1		11/11/20 15:48		D6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	17.3	mg/L	5.0	1		11/12/20 17:22		
Alkalinity, Total as CaCO ₃	17.3	mg/L	5.0	1		11/12/20 17:22		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	4.8	mg/L	1.0	1		11/12/20 18:09	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/12/20 18:09	16984-48-8	
Sulfate	3.0	mg/L	1.0	1		11/12/20 18:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

Sample: CR+0.2	Lab ID: 92505233002	Collected: 11/10/20 11:50	Received: 11/10/20 17:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data								
Analytical Method: Pace Analytical Services - Charlotte								
Performed by	Client			1		11/10/20 11:50		
pH	7.42	Std. Units		1		11/10/20 11:50		
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Sodium	5.5	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:03	7440-23-5	
Calcium	4.1	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:03	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	11/11/20 12:44	11/11/20 20:03	7439-95-4	
Potassium	2.5	mg/L	0.20	1	11/11/20 12:44	11/15/20 15:53	7440-09-7	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Beryllium	ND	mg/L	0.00050	1	11/11/20 12:31	11/11/20 16:10	7440-41-7	
Cobalt	ND	mg/L	0.0050	1	11/11/20 12:31	11/11/20 16:10	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	45.0	mg/L	10.0	1		11/11/20 15:48		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO3)	20.2	mg/L	5.0	1		11/12/20 17:43		
Alkalinity, Total as CaCO3	20.2	mg/L	5.0	1		11/12/20 17:43		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	4.8	mg/L	1.0	1		11/12/20 18:52	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/12/20 18:52	16984-48-8	
Sulfate	3.0	mg/L	1.0	1		11/12/20 18:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92505233

Sample: Dewatering Upstream		Lab ID: 92505233003	Collected: 11/10/20 11:55	Received: 11/10/20 17:57	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method: Pace Analytical Services - Charlotte						
Performed by	Client			1		11/10/20 11:55		
pH	6.90	Std. Units		1		11/10/20 11:55		
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Sodium	5.5	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:08	7440-23-5	
Calcium	4.2	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:08	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	11/11/20 12:44	11/11/20 20:08	7439-95-4	
Potassium	2.6	mg/L	0.20	1	11/11/20 12:44	11/15/20 15:58	7440-09-7	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Beryllium	ND	mg/L	0.00050	1	11/11/20 12:31	11/11/20 16:44	7440-41-7	
Cobalt	ND	mg/L	0.0050	1	11/11/20 12:31	11/11/20 16:44	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	43.0	mg/L	10.0	1		11/11/20 15:48		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO ₃)	20.3	mg/L	5.0	1		11/12/20 17:49		
Alkalinity, Total as CaCO ₃	20.3	mg/L	5.0	1		11/12/20 17:49		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	4.9	mg/L	1.0	1		11/12/20 19:06	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/12/20 19:06	16984-48-8	
Sulfate	3.1	mg/L	1.0	1		11/12/20 19:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92505233

Sample: Dewatering Downstream	Lab ID: 92505233004	Collected: 11/10/20 12:25	Received: 11/10/20 17:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data								
Analytical Method: Pace Analytical Services - Charlotte								
Performed by	Client			1		11/10/20 12:25		
pH	7.03	Std. Units		1		11/10/20 12:25		
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	5.6	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:14	7440-23-5	
Calcium	4.3	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:14	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	11/11/20 12:44	11/11/20 20:14	7439-95-4	
Potassium	2.5	mg/L	0.20	1	11/11/20 12:44	11/15/20 16:03	7440-09-7	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Beryllium	ND	mg/L	0.00050	1	11/11/20 12:31	11/12/20 09:41	7440-41-7	
Cobalt	ND	mg/L	0.0050	1	11/11/20 12:31	11/11/20 16:50	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	38.0	mg/L	10.0	1		11/11/20 15:49		
2320B Alkalinity								
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	17.7	mg/L	5.0	1		11/12/20 17:54		
Alkalinity, Total as CaCO ₃	17.7	mg/L	5.0	1		11/12/20 17:54		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	4.8	mg/L	1.0	1		11/12/20 19:21	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/12/20 19:21	16984-48-8	
Sulfate	3.0	mg/L	1.0	1		11/12/20 19:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

Sample: CR-0.2	Lab ID: 92505233005	Collected: 11/10/20 12:47	Received: 11/10/20 17:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data								
Analytical Method: Pace Analytical Services - Charlotte								
Performed by	Client			1		11/10/20 12:47		
pH	7.82	Std. Units		1		11/10/20 12:47		
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Sodium	5.9	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:19	7440-23-5	
Calcium	4.3	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:19	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	11/11/20 12:44	11/11/20 20:19	7439-95-4	
Potassium	2.6	mg/L	0.20	1	11/11/20 12:44	11/15/20 16:09	7440-09-7	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Beryllium	ND	mg/L	0.00050	1	11/11/20 12:31	11/11/20 16:55	7440-41-7	
Cobalt	ND	mg/L	0.0050	1	11/11/20 12:31	11/11/20 16:55	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	48.0	mg/L	10.0	1		11/11/20 15:49		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO3)	20.7	mg/L	5.0	1		11/12/20 18:00		
Alkalinity, Total as CaCO3	20.7	mg/L	5.0	1		11/12/20 18:00		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	11.2	mg/L	1.0	1		11/12/20 19:35	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/12/20 19:35	16984-48-8	
Sulfate	3.2	mg/L	1.0	1		11/12/20 19:35	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

Sample: CR-0.5	Lab ID: 92505233006	Collected: 11/10/20 12:55	Received: 11/10/20 17:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data								
Analytical Method: Pace Analytical Services - Charlotte								
Performed by	Client			1		11/10/20 12:55		
pH	7.40	Std. Units		1		11/10/20 12:55		
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Sodium	5.7	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:24	7440-23-5	
Calcium	4.3	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:24	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	11/11/20 12:44	11/11/20 20:24	7439-95-4	
Potassium	2.5	mg/L	0.20	1	11/11/20 12:44	11/15/20 16:14	7440-09-7	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Beryllium	ND	mg/L	0.00050	1	11/11/20 12:31	11/11/20 17:29	7440-41-7	
Cobalt	ND	mg/L	0.0050	1	11/11/20 12:31	11/11/20 17:29	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	47.0	mg/L	10.0	1		11/11/20 15:49		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	20.2	mg/L	5.0	1		11/12/20 18:06		
Alkalinity, Total as CaCO ₃	20.2	mg/L	5.0	1		11/12/20 18:06		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	4.9	mg/L	1.0	1		11/12/20 19:50	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/12/20 19:50	16984-48-8	
Sulfate	3.0	mg/L	1.0	1		11/12/20 19:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

Sample: CR-0.8	Lab ID: 92505233007	Collected: 11/10/20 13:15	Received: 11/10/20 17:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data								
Analytical Method: Pace Analytical Services - Charlotte								
Performed by	Client			1		11/10/20 13:15		
pH	7.62	Std. Units		1		11/10/20 13:15		
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Sodium	5.6	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:40	7440-23-5	
Calcium	4.4	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:40	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	11/11/20 12:44	11/11/20 20:40	7439-95-4	
Potassium	2.5	mg/L	0.20	1	11/11/20 12:44	11/15/20 16:19	7440-09-7	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Beryllium	ND	mg/L	0.00050	1	11/11/20 12:31	11/11/20 17:35	7440-41-7	
Cobalt	ND	mg/L	0.0050	1	11/11/20 12:31	11/11/20 17:35	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	50.0	mg/L	10.0	1		11/11/20 15:49		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO3)	20.0	mg/L	5.0	1		11/12/20 18:22		
Alkalinity, Total as CaCO3	20.0	mg/L	5.0	1		11/12/20 18:22		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	5.1	mg/L	1.0	1		11/12/20 20:33	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/12/20 20:33	16984-48-8	
Sulfate	3.2	mg/L	1.0	1		11/12/20 20:33	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

QC Batch:	579547	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92505233001, 92505233002, 92505233003, 92505233004, 92505233005, 92505233006, 92505233007

METHOD BLANK: 3065899 Matrix: Water
 Associated Lab Samples: 92505233001, 92505233002, 92505233003, 92505233004, 92505233005, 92505233006, 92505233007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	11/11/20 19:22	
Magnesium	mg/L	ND	0.050	11/11/20 19:22	
Potassium	mg/L	ND	0.20	11/11/20 19:22	
Sodium	mg/L	ND	1.0	11/11/20 19:22	

LABORATORY CONTROL SAMPLE: 3065900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	1.2	119	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3065901 3065902

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92505233001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	4.2	1	1	5.4	5.5	120	129	75-125	2	20 M1
Magnesium	mg/L	2.0	1	1	3.1	3.1	111	110	75-125	0	20
Potassium	mg/L	2.4	1	1	3.9	3.7	143	125	75-125	5	20
Sodium	mg/L	5.4	1	1	6.6	6.8	120	133	75-125	2	20 M1

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

QC Batch:	579551	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92505233001, 92505233002, 92505233003, 92505233004, 92505233005, 92505233006, 92505233007

METHOD BLANK: 3065931 Matrix: Water
 Associated Lab Samples: 92505233001, 92505233002, 92505233003, 92505233004, 92505233005, 92505233006, 92505233007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium	mg/L	ND	0.00050	11/11/20 15:52	
Cobalt	mg/L	ND	0.0050	11/11/20 15:52	

LABORATORY CONTROL SAMPLE: 3065932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3065933 3065934

Parameter	Units	92505233002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	ND	0.1	0.1	0.10	0.095	100	94	75-125	5	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

QC Batch: 579634 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92505233001, 92505233002, 92505233003, 92505233004, 92505233005, 92505233006, 92505233007

METHOD BLANK: 3066400 Matrix: Water
 Associated Lab Samples: 92505233001, 92505233002, 92505233003, 92505233004, 92505233005, 92505233006, 92505233007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/11/20 15:42	

LABORATORY CONTROL SAMPLE: 3066401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	397	99	84-108	

SAMPLE DUPLICATE: 3066402

Parameter	Units	92505233001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	43.0	49.0	13	10	D6

SAMPLE DUPLICATE: 3066403

Parameter	Units	92505233001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	684	670	2	10	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92505233

QC Batch: 580018 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92505233001, 92505233002, 92505233003, 92505233004, 92505233005, 92505233006, 92505233007

METHOD BLANK: 3068228 Matrix: Water
 Associated Lab Samples: 92505233001, 92505233002, 92505233003, 92505233004, 92505233005, 92505233006, 92505233007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	11/12/20 16:26	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	11/12/20 16:26	

LABORATORY CONTROL SAMPLE: 3068229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3068230 3068231

Parameter	Units	92505233001 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	17.3	50	50	70.0	70.7	105	107	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3068232 3068233

Parameter	Units	92504167001 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	452	50	50	482	482	61	60	80-120	0	25 M1	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

QC Batch:	579993	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: 92505233001, 92505233002, 92505233003, 92505233004, 92505233005, 92505233006, 92505233007

METHOD BLANK: 3068011 Matrix: Water
 Associated Lab Samples: 92505233001, 92505233002, 92505233003, 92505233004, 92505233005, 92505233006, 92505233007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	11/12/20 17:40	
Fluoride	mg/L	ND	0.10	11/12/20 17:40	
Sulfate	mg/L	ND	1.0	11/12/20 17:40	

LABORATORY CONTROL SAMPLE: 3068012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.5	95	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	47.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3068013 3068014

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92505233001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.8	50	50	56.6	55.1	103	100	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.5	103	99	90-110	3	10		
Sulfate	mg/L	3.0	50	50	55.0	52.8	104	100	90-110	4	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3068378 3068379

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92505059003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	18.2	50	50	68.7	68.7	101	101	90-110	0	10		
Fluoride	mg/L	0.23	2.5	2.5	3.0	2.9	111	107	90-110	3	10 M1		
Sulfate	mg/L	426	50	50	497	511	142	170	90-110	3	10 M6		

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QUALIFIERS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505233

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92505233

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92505233001	CR+0.4				
92505233002	CR+0.2				
92505233003	Dewatering Upstream				
92505233004	Dewatering Downstream				
92505233005	CR-0.2				
92505233006	CR-0.5				
92505233007	CR-0.8				
92505233001	CR+0.4	EPA 3010A	579547	EPA 6010D	579657
92505233002	CR+0.2	EPA 3010A	579547	EPA 6010D	579657
92505233003	Dewatering Upstream	EPA 3010A	579547	EPA 6010D	579657
92505233004	Dewatering Downstream	EPA 3010A	579547	EPA 6010D	579657
92505233005	CR-0.2	EPA 3010A	579547	EPA 6010D	579657
92505233006	CR-0.5	EPA 3010A	579547	EPA 6010D	579657
92505233007	CR-0.8	EPA 3010A	579547	EPA 6010D	579657
92505233001	CR+0.4	EPA 3005A	579551	EPA 6020B	579656
92505233002	CR+0.2	EPA 3005A	579551	EPA 6020B	579656
92505233003	Dewatering Upstream	EPA 3005A	579551	EPA 6020B	579656
92505233004	Dewatering Downstream	EPA 3005A	579551	EPA 6020B	579656
92505233005	CR-0.2	EPA 3005A	579551	EPA 6020B	579656
92505233006	CR-0.5	EPA 3005A	579551	EPA 6020B	579656
92505233007	CR-0.8	EPA 3005A	579551	EPA 6020B	579656
92505233001	CR+0.4	SM 2450C-2011	579634		
92505233002	CR+0.2	SM 2450C-2011	579634		
92505233003	Dewatering Upstream	SM 2450C-2011	579634		
92505233004	Dewatering Downstream	SM 2450C-2011	579634		
92505233005	CR-0.2	SM 2450C-2011	579634		
92505233006	CR-0.5	SM 2450C-2011	579634		
92505233007	CR-0.8	SM 2450C-2011	579634		
92505233001	CR+0.4	SM 2320B-2011	580018		
92505233002	CR+0.2	SM 2320B-2011	580018		
92505233003	Dewatering Upstream	SM 2320B-2011	580018		
92505233004	Dewatering Downstream	SM 2320B-2011	580018		
92505233005	CR-0.2	SM 2320B-2011	580018		
92505233006	CR-0.5	SM 2320B-2011	580018		
92505233007	CR-0.8	SM 2320B-2011	580018		
92505233001	CR+0.4	EPA 300.0 Rev 2.1 1993	579993		
92505233002	CR+0.2	EPA 300.0 Rev 2.1 1993	579993		
92505233003	Dewatering Upstream	EPA 300.0 Rev 2.1 1993	579993		
92505233004	Dewatering Downstream	EPA 300.0 Rev 2.1 1993	579993		
92505233005	CR-0.2	EPA 300.0 Rev 2.1 1993	579993		
92505233006	CR-0.5	EPA 300.0 Rev 2.1 1993	579993		
92505233007	CR-0.8	EPA 300.0 Rev 2.1 1993	579993		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is TGA, OCCUR HP. All requests for analysis must be complete accurate.

Section A
 Client Information
 Company: AGRIUM AGENCY
 Address: 1414 Greenway Dr
Atlanta, GA 30310
 Contact: AGRIUM AGENCY
 Phone: 404-525-1111
 Fax: 404-525-1111

Section B
 Requester Information
 Name: James Jones
 Title: VP of Sales and Marketing
 Phone: 404-525-1111
 Email: James.Jones@agrium.com

Section C
 Project Information
 Project Name: AGRIUM AGENCY
 Address: 1414 Greenway Dr
 City: Atlanta, GA
 State: GA
 Zip: 30310

WO#: 92505233



ITEM #	SAMPLE ID See Chain of Custody for Sample Description	DATE COLLECTED	COLLECTOR		ANALYSIS	LABORATORY	ANALYSIS YEAR	ANALYSIS METHOD	ANALYSIS COST	ANALYSIS STATUS
			NAME	PHONE						
1	Sample #1 - 7.35	11/10/20								
2	Sample #2 - 7.82	11/10/20								
3	Sample #3 - 7.82	11/10/20								
4	Sample #4 - 7.82	11/10/20								
5	Sample #5 - 7.82	11/10/20								
6	Sample #6 - 7.82	11/10/20								
7	Sample #7 - 7.62	11/10/20								
8										
9										
10										
11										
12										

APPROVED BY: [Signature] DATE: 11/10/20 ANALYST: [Signature] LAB: AGRIUM

CHAIN OF CUSTODY - SAMPLES AND TESTS
 Name of Person Analyzing: Chad VanLingen
 Date Analyzed: 11/10/20
 Signature: [Signature]



Laboratory receiving lamp (1):
Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Company/Client ID:
Labs:

Client Name:

City:
State:

Project #
WO#: **92505233**

PR # Due Date: 11/13/20
CLIENT:

Exactly Seal Preserved? No Yes

Consent to Personal Learning Centers:

Packing Material: Bubble wrap Bubble Mail Foam Other

Biological Media Present? Yes No

Thermometer: Type of ice:

Cooler Temp: Correction Factor:

Temp should be above freezing (50°F) No Yes
Temperature of cooler at time of pickup (if not present or missing, please note):

Cooler Temp Corrected (°C)
USDA Regulated Soil Yes No

Did temperature probe malfunction at source (temperature > 45°F dry weight and humidity > 80%)? Yes No

Did temperature probe malfunction at source (temperature > 45°F dry weight and humidity > 80%)? Yes No

	Yes	No	Other		Comments/Discrepancy
Label on Cooler Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
Sample Returned within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
Short Hold Time Analysis (TLR) (P)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	
Blank Turn Around Time (Report Date)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	
30% Wet Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	
Connect Containers Used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6	
Freeze Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	
Containers Sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	
Returned to Source (Samples First Returned)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9	
Sample with Source COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	
Use Same Temperature Analytical Matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	
Temperature in Cooler Analytical Matrix?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12	
Temp. Humidity Reported?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13	
100% Relative Humidity Reported?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14	

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:



November 16, 2020

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92505235

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92505235

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505235

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92505235001	UT01_US	Water	11/10/20 14:05	11/10/20 17:57
92505235002	UT02	Water	11/10/20 14:20	11/10/20 17:57
92505235003	UT01_DS	Water	11/10/20 14:35	11/10/20 17:57

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92505235

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92505235001	UT01_US	EPA 6010D	DRB, KH	4	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		SM 2320B-2011	KDF1	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92505235002	UT02	EPA 6010D	DRB, KH	4	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		SM 2320B-2011	KDF1	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92505235003	UT01_DS	EPA 6010D	DRB, KH	4	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		SM 2320B-2011	KDF1	2	PASI-A
		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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505235

Sample: UT01_US	Lab ID: 92505235001	Collected: 11/10/20 14:05	Received: 11/10/20 17:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data								
Analytical Method: Pace Analytical Services - Charlotte								
Performed by	Client			1		11/10/20 14:05		
pH	7.30	Std. Units		1		11/10/20 14:05		
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.6	mg/L	0.20	1	11/11/20 12:44	11/15/20 16:35	7440-09-7	
Sodium	14.2	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:45	7440-23-5	
Calcium	21.3	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:45	7440-70-2	
Magnesium	4.2	mg/L	0.050	1	11/11/20 12:44	11/11/20 20:45	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Molybdenum	ND	mg/L	0.010	1	11/11/20 12:31	11/11/20 17:41	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	132	mg/L	10.0	1		11/11/20 15:49		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	68.8	mg/L	5.0	1		11/12/20 18:27		
Alkalinity, Total as CaCO ₃	68.8	mg/L	5.0	1		11/12/20 18:27		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	12.0	mg/L	1.0	1		11/12/20 20:48	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		11/12/20 20:48	16984-48-8	
Sulfate	16.1	mg/L	1.0	1		11/12/20 20:48	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92505235

Sample: UT02	Lab ID: 92505235002	Collected: 11/10/20 14:20	Received: 11/10/20 17:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data								
Analytical Method: Pace Analytical Services - Charlotte								
Performed by	Client			1		11/10/20 14:20		
pH	7.31	Std. Units		1		11/10/20 14:20		
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	14.4	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:50	7440-23-5	
Calcium	21.9	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:50	7440-70-2	
Magnesium	4.4	mg/L	0.050	1	11/11/20 12:44	11/11/20 20:50	7439-95-4	
Potassium	3.8	mg/L	0.20	1	11/11/20 12:44	11/15/20 16:40	7440-09-7	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Molybdenum	ND	mg/L	0.010	1	11/11/20 12:31	11/11/20 17:46	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	127	mg/L	10.0	1		11/11/20 15:49		
2320B Alkalinity								
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	67.9	mg/L	5.0	1		11/12/20 18:34		
Alkalinity, Total as CaCO ₃	67.9	mg/L	5.0	1		11/12/20 18:34		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	11.7	mg/L	1.0	1		11/12/20 21:02	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		11/12/20 21:02	16984-48-8	
Sulfate	16.5	mg/L	1.0	1		11/12/20 21:02	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92505235

Sample: UT01_DS	Lab ID: 92505235003	Collected: 11/10/20 14:35	Received: 11/10/20 17:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data								
Analytical Method: Pace Analytical Services - Charlotte								
Performed by	Client			1		11/10/20 14:35		
pH	7.18	Std. Units		1		11/10/20 14:35		
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	13.9	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:55	7440-23-5	
Calcium	22.3	mg/L	1.0	1	11/11/20 12:44	11/11/20 20:55	7440-70-2	
Magnesium	4.8	mg/L	0.050	1	11/11/20 12:44	11/11/20 20:55	7439-95-4	
Potassium	3.9	mg/L	0.20	1	11/11/20 12:44	11/15/20 16:45	7440-09-7	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Molybdenum	ND	mg/L	0.010	1	11/11/20 12:31	11/11/20 17:52	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	145	mg/L	10.0	1		11/11/20 15:50		
2320B Alkalinity								
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	68.8	mg/L	5.0	1		11/12/20 18:42		
Alkalinity, Total as CaCO ₃	68.8	mg/L	5.0	1		11/12/20 18:42		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	11.5	mg/L	1.0	1		11/12/20 21:17	16887-00-6	
Fluoride	0.18	mg/L	0.10	1		11/12/20 21:17	16984-48-8	
Sulfate	20.5	mg/L	1.0	1		11/12/20 21:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505235

QC Batch: 579547 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92505235001, 92505235002, 92505235003

METHOD BLANK: 3065899 Matrix: Water
 Associated Lab Samples: 92505235001, 92505235002, 92505235003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	11/11/20 19:22	
Magnesium	mg/L	ND	0.050	11/11/20 19:22	
Potassium	mg/L	ND	0.20	11/11/20 19:22	
Sodium	mg/L	ND	1.0	11/11/20 19:22	

LABORATORY CONTROL SAMPLE: 3065900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	1.2	119	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3065901 3065902

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92505233001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	4.2	1	1	5.4	5.5	120	129	75-125	2	20 M1
Magnesium	mg/L	2.0	1	1	3.1	3.1	111	110	75-125	0	20
Potassium	mg/L	2.4	1	1	3.9	3.7	143	125	75-125	5	20
Sodium	mg/L	5.4	1	1	6.6	6.8	120	133	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.: 92505235

QC Batch: 579551	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92505235001, 92505235002, 92505235003

METHOD BLANK: 3065931 Matrix: Water
 Associated Lab Samples: 92505235001, 92505235002, 92505235003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Molybdenum	mg/L	ND	0.010	11/11/20 15:52	

LABORATORY CONTROL SAMPLE: 3065932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3065933 3065934

Parameter	Units	92505233002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505235

QC Batch: 579634 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92505235001, 92505235002, 92505235003

METHOD BLANK: 3066400 Matrix: Water

Associated Lab Samples: 92505235001, 92505235002, 92505235003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/11/20 15:42	

LABORATORY CONTROL SAMPLE: 3066401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	397	99	84-108	

SAMPLE DUPLICATE: 3066402

Parameter	Units	92505233001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	43.0	49.0	13	10	D6

SAMPLE DUPLICATE: 3066403

Parameter	Units	92505230001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	684	670	2	10	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505235

QC Batch: 580018 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92505235001, 92505235002, 92505235003

METHOD BLANK: 3068228 Matrix: Water
 Associated Lab Samples: 92505235001, 92505235002, 92505235003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	11/12/20 16:26	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	11/12/20 16:26	

LABORATORY CONTROL SAMPLE: 3068229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3068230 3068231

Parameter	Units	92505233001 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	17.3	50	50	70.0	70.7	105	107	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3068232 3068233

Parameter	Units	92504167001 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	452	50	50	482	482	61	60	80-120	0	25 M1	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505235

QC Batch:	579993	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: 92505235001, 92505235002, 92505235003

METHOD BLANK: 3068011 Matrix: Water

Associated Lab Samples: 92505235001, 92505235002, 92505235003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	11/12/20 17:40	
Fluoride	mg/L	ND	0.10	11/12/20 17:40	
Sulfate	mg/L	ND	1.0	11/12/20 17:40	

LABORATORY CONTROL SAMPLE: 3068012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.5	95	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	47.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3068013 3068014

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92505233001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.8	50	50	56.6	55.1	103	100	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.5	103	99	90-110	3	10		
Sulfate	mg/L	3.0	50	50	55.0	52.8	104	100	90-110	4	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3068378 3068379

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92505059003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	18.2	50	50	68.7	68.7	101	101	90-110	0	10		
Fluoride	mg/L	0.23	2.5	2.5	3.0	2.9	111	107	90-110	3	10	M1	
Sulfate	mg/L	426	50	50	497	511	142	170	90-110	3	10	M6	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92505235

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92505235

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92505235001	UT01_US				
92505235002	UT02				
92505235003	UT01_DS				
92505235001	UT01_US	EPA 3010A	579547	EPA 6010D	579657
92505235002	UT02	EPA 3010A	579547	EPA 6010D	579657
92505235003	UT01_DS	EPA 3010A	579547	EPA 6010D	579657
92505235001	UT01_US	EPA 3005A	579551	EPA 6020B	579656
92505235002	UT02	EPA 3005A	579551	EPA 6020B	579656
92505235003	UT01_DS	EPA 3005A	579551	EPA 6020B	579656
92505235001	UT01_US	SM 2450C-2011	579634		
92505235002	UT02	SM 2450C-2011	579634		
92505235003	UT01_DS	SM 2450C-2011	579634		
92505235001	UT01_US	SM 2320B-2011	580018		
92505235002	UT02	SM 2320B-2011	580018		
92505235003	UT01_DS	SM 2320B-2011	580018		
92505235001	UT01_US	EPA 300.0 Rev 2.1 1993	579993		
92505235002	UT02	EPA 300.0 Rev 2.1 1993	579993		
92505235003	UT01_DS	EPA 300.0 Rev 2.1 1993	579993		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Department of Environmental Protection Analytical Request Document is a required form for all samples submitted for analysis.

Page **3**

Section 1 Requester/Client Information:	Section 2 Requestor/Project Information:	Section 3 Sample Information:
Company: WFOCAL	Project ID: WFOCAL	Sample ID: WFOCAL
Address: 200 Park Street	City: Worcester	County: Worcester
Date: 04/20/20	Project Name: WFOCAL	Regulatory Agency:
Requester Name: John Doe	Requester Title: Project Manager	Requester Phone: 508-853-1234

WFOCAL: 92505235

DATE	TIME	LOCATION	SAMPLER	ANALYSIS	ANALYST	LABORATORY	METHOD	RESULTS	REMARKS
1	7:30								
2	7:31								
3	7:32								
4									
5									
6									
7									
8									
9									
10									

SECTION 4: ANALYST INFORMATION	SECTION 5: ANALYSIS INFORMATION	SECTION 6: LABORATORY INFORMATION	SECTION 7: SAMPLE INFORMATION
Requester Name: John Doe	Requester Title: Project Manager	Requester Phone: 508-853-1234	Requester Email: john.doe@wfo.com
Requester Address: 200 Park Street	Requester City: Worcester	Requester State: MA	Requester Zip: 01602
Requester Date: 04/20/20	Requester Time: 7:30	Requester Location: WFOCAL	Requester Sampler: John Doe

SAMPLER NAME AND SIGNATURE	LABORATORY INFORMATION
Requester Name: John Doe	Requester Title: Project Manager
Requester Address: 200 Park Street	Requester City: Worcester
Requester State: MA	Requester Zip: 01602
Requester Date: 04/20/20	Requester Time: 7:30



Document Name: Sample Condition Update Worksheet (SCUW)
Document No.: PAC-05-013-Rev.03

Document Revised: October 24, 2020
Page 1 of 2
Issued Authority: Pace Control Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Mooresville

Sample Condition Update

Client Name: Acadics

Project ID:

WO#: 92505235

Client: Commercial Residential

Condition: Pre-Use UPS PUPS Other

FR: JP Date Date: 11/13/20

CLIENT: SA-ASAC004

Commodity Seal Present? No Yes Seal Intact? Yes No

Sample(s) Present During Exam: 11/13/20

Packing Material: Bubblewrap Bubble Bags Paper Other

Biological Hazard Present?

Temperature: Ambient Cold Hot

Yes No N/A

Cooler Temp: 21F Connection Factor: Add Switch (Y) 0

Temp should be above freezing to 8°C
 Do not use forms unless properly used, cooling process not begun

Cooler Temp Controlled (Y): 21F

USDA Regulated Soil (Y) No, water sample

Biological hazard present or possible when the biohazard label is present (check all that apply) Yes No

Did sample originate in a USFS source program study, project of Forest and Rangeland? Yes No

Commercial Description: _____

Use of Outside Product?	FR	SA	USA	L		
Use of any seal with a label for use?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	1	
Use of any seal with a label for use?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	2	
Use of any seal with a label for use?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3	
Use of any seal with a label for use?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	4	
Use of any seal with a label for use?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	5	
Use of any seal with a label for use?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	6	
Use of any seal with a label for use?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	7	
Use of any seal with a label for use?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8	
Use of any seal with a label for use?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	9	
Use of any seal with a label for use?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	10	
Use of any seal with a label for use?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	11	
Use of any seal with a label for use?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12	

Total Date Required: Yes No

Total of page work sheet

Submit form to your local field office

Date accepted: _____ Date/TIME: _____

Project Manager SIGNATURE

Date: _____

Project Manager S&S Reviewer: _____

Date: _____



February 10, 2021

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92519959

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519959

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519959

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92519959001	UT01_US	Water	02/02/21 15:00	02/03/21 08:50
92519959002	UT02	Water	02/02/21 14:40	02/03/21 08:50
92519959003	UT01_DS	Water	02/02/21 14:45	02/03/21 08:50
92519959004	UT03	Water	02/02/21 14:30	02/03/21 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519959

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92519959001	UT01_US	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92519959002	UT02	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92519959003	UT01_DS	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92519959004	UT03	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2450C-2011	AW1	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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519959

Sample: UT01_US	Lab ID: 92519959001	Collected: 02/02/21 15:00	Received: 02/03/21 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.9	mg/L	0.20	1	02/04/21 09:45	02/05/21 19:18	7440-09-7	
Sodium	12.7	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:18	7440-23-5	
Calcium	17.2	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:18	7440-70-2	
Magnesium	3.3	mg/L	0.050	1	02/04/21 09:45	02/05/21 19:18	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:38	7440-38-2	
Boron	0.046	mg/L	0.040	1	02/04/21 10:04	02/07/21 17:38	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 17:38	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	97.0	mg/L	10.0	1		02/04/21 12:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	53.5	mg/L	5.0	1		02/05/21 23:42		
Alkalinity, Total as CaCO ₃	53.5	mg/L	5.0	1		02/05/21 23:42		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	10.7	mg/L	1.0	1		02/05/21 11:50	16887-00-6	
Fluoride	0.22	mg/L	0.10	1		02/05/21 11:50	16984-48-8	
Sulfate	14.5	mg/L	1.0	1		02/05/21 11:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519959

Sample: UT02	Lab ID: 92519959002	Collected: 02/02/21 14:40	Received: 02/03/21 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.0	mg/L	0.20	1	02/04/21 09:45	02/05/21 19:22	7440-09-7	
Sodium	12.7	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:22	7440-23-5	
Calcium	17.4	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:22	7440-70-2	
Magnesium	3.3	mg/L	0.050	1	02/04/21 09:45	02/05/21 19:22	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:43	7440-38-2	
Boron	0.063	mg/L	0.040	1	02/04/21 10:04	02/07/21 17:43	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 17:43	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	99.0	mg/L	10.0	1		02/04/21 12:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	54.7	mg/L	5.0	1		02/09/21 13:52		
Alkalinity, Total as CaCO ₃	54.7	mg/L	5.0	1		02/09/21 13:52		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	10.4	mg/L	1.0	1		02/05/21 12:04	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		02/05/21 12:04	16984-48-8	
Sulfate	15.5	mg/L	1.0	1		02/05/21 12:04	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519959

Sample: UT01_DS	Lab ID: 92519959003	Collected: 02/02/21 14:45	Received: 02/03/21 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.9	mg/L	0.20	1	02/04/21 09:45	02/05/21 19:27	7440-09-7	
Sodium	12.2	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:27	7440-23-5	
Calcium	17.4	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:27	7440-70-2	
Magnesium	3.6	mg/L	0.050	1	02/04/21 09:45	02/05/21 19:27	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:49	7440-38-2	
Boron	0.11	mg/L	0.040	1	02/04/21 10:04	02/07/21 17:49	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 17:49	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	100	mg/L	10.0	1		02/04/21 12:10		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	55.1	mg/L	5.0	1		02/09/21 14:00		
Alkalinity, Total as CaCO ₃	55.1	mg/L	5.0	1		02/09/21 14:00		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.9	mg/L	1.0	1		02/05/21 12:19	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		02/05/21 12:19	16984-48-8	
Sulfate	16.5	mg/L	1.0	1		02/05/21 12:19	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92519959

Sample: UT03		Lab ID: 92519959004		Collected: 02/02/21 14:30	Received: 02/03/21 08:50	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	2.9	mg/L	0.20	1	02/04/21 09:45	02/05/21 19:32	7440-09-7	
Sodium	12.6	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:32	7440-23-5	
Calcium	17.3	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:32	7440-70-2	
Magnesium	3.4	mg/L	0.050	1	02/04/21 09:45	02/05/21 19:32	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 18:06	7440-38-2	
Boron	0.069	mg/L	0.040	1	02/04/21 10:04	02/07/21 18:06	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 18:06	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	98.0	mg/L	10.0	1		02/04/21 12:10		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO ₃)	54.3	mg/L	5.0	1		02/09/21 14:08		
Alkalinity, Total as CaCO ₃	54.3	mg/L	5.0	1		02/09/21 14:08		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	10.2	mg/L	1.0	1		02/05/21 13:31	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		02/05/21 13:31	16984-48-8	
Sulfate	15.4	mg/L	1.0	1		02/05/21 13:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519959

QC Batch: 597431 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92519959001, 92519959002, 92519959003, 92519959004

METHOD BLANK: 3150491 Matrix: Water
 Associated Lab Samples: 92519959001, 92519959002, 92519959003, 92519959004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	02/05/21 18:05	
Magnesium	mg/L	ND	0.050	02/05/21 18:05	
Potassium	mg/L	ND	0.20	02/05/21 18:05	
Sodium	mg/L	ND	1.0	02/05/21 18:05	

LABORATORY CONTROL SAMPLE: 3150492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	
Magnesium	mg/L	1	0.95	95	80-120	
Potassium	mg/L	1	1.1	115	80-120	
Sodium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3150493 3150494

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92519942001 Result	Spike Conc.	Spike Conc.	Conc.							
Calcium	mg/L	5.3	1	1	6.2	6.3	92	103	75-125	2	20	
Magnesium	mg/L	2.1	1	1	3.0	3.1	95	97	75-125	1	20	
Potassium	mg/L	2.8	1	1	3.9	3.9	107	109	75-125	0	20	
Sodium	mg/L	7.0	1	1	8.0	8.1	99	112	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519959

QC Batch:	597433	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92519959001, 92519959002, 92519959003, 92519959004

METHOD BLANK: 3150562 Matrix: Water
 Associated Lab Samples: 92519959001, 92519959002, 92519959003, 92519959004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	02/07/21 14:46	
Boron	mg/L	ND	0.040	02/07/21 14:46	
Molybdenum	mg/L	ND	0.010	02/07/21 14:46	

LABORATORY CONTROL SAMPLE: 3150563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	100	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3150564 3150565

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92519266022 Result	Spike Conc.	Spike Conc.	Result								
Arsenic	mg/L	1.4J ug/L	0.1	0.1	0.10	0.10	101	100	75-125	1	20		
Boron	mg/L	587 ug/L	1	1	1.6	1.5	97	96	75-125	1	20		
Molybdenum	mg/L	14.0 ug/L	0.1	0.1	0.12	0.12	103	101	75-125	2	20		

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92519959

QC Batch: 597549 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92519959001, 92519959002, 92519959003, 92519959004

METHOD BLANK: 3150931 Matrix: Water
 Associated Lab Samples: 92519959001, 92519959002, 92519959003, 92519959004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/04/21 12:04	

LABORATORY CONTROL SAMPLE: 3150932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	84-108	

SAMPLE DUPLICATE: 3150933

Parameter	Units	92519931002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	43.0	5	10	

SAMPLE DUPLICATE: 3150934

Parameter	Units	92519942006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	31.0	33.0	6	10	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92519959

QC Batch: 598016 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92519959001

METHOD BLANK: 3153367 Matrix: Water
 Associated Lab Samples: 92519959001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/05/21 20:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/05/21 20:00	

LABORATORY CONTROL SAMPLE: 3153368

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: 3153369 3153370

Parameter	Units	92518671027 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	160	50	50	207	213	95	107	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3153371 3153372

Parameter	Units	92519484005 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	21.3	50	50	73.0	73.4	103	104	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519959

QC Batch: 598355

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92519959002, 92519959003, 92519959004

METHOD BLANK: 3154778

Matrix: Water

Associated Lab Samples: 92519959002, 92519959003, 92519959004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/09/21 13:16	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/09/21 13:16	

LABORATORY CONTROL SAMPLE: 3154779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.7	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3154780 3154781

Parameter	Units	92518942011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	23.9	50	50	70.3	70.8	93	94	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3154782 3154783

Parameter	Units	92518942012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	35.3	50	50	85.2	85.5	100	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519959

QC Batch: 597589 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: 92519959001, 92519959002, 92519959003, 92519959004

METHOD BLANK: 3151020 Matrix: Water
 Associated Lab Samples: 92519959001, 92519959002, 92519959003, 92519959004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/05/21 08:05	
Fluoride	mg/L	ND	0.10	02/05/21 08:05	
Sulfate	mg/L	ND	1.0	02/05/21 08:05	

LABORATORY CONTROL SAMPLE: 3151021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.2	94	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3151022 3151023

Parameter	Units	92519942001		MS Spike Conc.		MSD Spike Conc.		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Conc.										
Chloride	mg/L	6.3	50	50	52.7	53.2	93	94	90-110	1	10				
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	93	95	90-110	2	10				
Sulfate	mg/L	4.5	50	50	51.7	51.9	94	95	90-110	0	10				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3151024 3151025

Parameter	Units	92519959003		MS Spike Conc.		MSD Spike Conc.		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Conc.										
Chloride	mg/L	9.9	50	50	57.4	57.2	95	95	90-110	0	10				
Fluoride	mg/L	0.17	2.5	2.5	2.5	2.5	94	94	90-110	0	10				
Sulfate	mg/L	16.5	50	50	64.4	64.3	96	96	90-110	0	10				

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QUALIFIERS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92519959

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92519959

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92519959001	UT01_US	EPA 3010A	597431	EPA 6010D	597695
92519959002	UT02	EPA 3010A	597431	EPA 6010D	597695
92519959003	UT01_DS	EPA 3010A	597431	EPA 6010D	597695
92519959004	UT03	EPA 3010A	597431	EPA 6010D	597695
92519959001	UT01_US	EPA 3005A	597433	EPA 6020B	597742
92519959002	UT02	EPA 3005A	597433	EPA 6020B	597742
92519959003	UT01_DS	EPA 3005A	597433	EPA 6020B	597742
92519959004	UT03	EPA 3005A	597433	EPA 6020B	597742
92519959001	UT01_US	SM 2450C-2011	597549		
92519959002	UT02	SM 2450C-2011	597549		
92519959003	UT01_DS	SM 2450C-2011	597549		
92519959004	UT03	SM 2450C-2011	597549		
92519959001	UT01_US	SM 2320B-2011	598016		
92519959002	UT02	SM 2320B-2011	598355		
92519959003	UT01_DS	SM 2320B-2011	598355		
92519959004	UT03	SM 2320B-2011	598355		
92519959001	UT01_US	EPA 300.0 Rev 2.1 1993	597589		
92519959002	UT02	EPA 300.0 Rev 2.1 1993	597589		
92519959003	UT01_DS	EPA 300.0 Rev 2.1 1993	597589		
92519959004	UT03	EPA 300.0 Rev 2.1 1993	597589		

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Sample Request Document

Requested Date Information:	Requester Name:	Requester Title:
Company: <u>US Army</u>	Name: <u>John Smith</u>	Company: <u>US Army</u>
Address: <u>123 Main St</u>	City: <u>Fort Belvoir</u>	Company: <u>US Army</u>
State: <u>CO</u>	Zip: <u>80110</u>	Company: <u>US Army</u>
Phone: <u>303-555-1234</u>	Project Name: <u>US Army</u>	Company: <u>US Army</u>
Requester Email: <u>john.smith@army.mil</u>	Project ID: <u>12345</u>	Company: <u>US Army</u>

ITEM #	SAMPLE ID	ANALYSIS	ANALYSIS				ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS
			ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS														
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	21 JAN	0800	<i>[Signature]</i>	21 JAN	0800	

SAMPLER NAME AND SIGNATURE

NAME OF SAMPLER: _____

SIGNATURE OF SAMPLER: _____





Document #123
Sample Condition: Moist (PM 1.0)
Date: 08/10/2010
PC: 000001031 REV. 02

Document #123 Rev. 02, Page 22 of 22
Page 1 of 2
Date: 08/10/2010
Page 22 of 22

Laboratory receiving samples:

Ashcroft Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Lab # 001
Client Name

Genl. Name

Project

WO#: 92519959

Count: Chemical Part

Asbestos - Asbestos
Lead
Lead
Lead

PM # _____ Date: 08/09/10
CLIENT: GA-Ases0011

Configure test protocol: Yes No

Packing Material: Bubble wrap Styrofoam Foam Other _____

Transmission: Direct Indirect

Water Temp: 19
Soil Temp: 19

Soil Temp Corrected

Soil Temp Measured

Did you sample in a container that was in the brand Matrix 48 hrs or 60 days before use?

No Yes

Temp should be above 50deg F to test
If humidity is too high, use air conditioning cooling system for 24 hrs.

Did you get original from the manufacturer? If not, include name and phone number. Yes No

Comments/Prep work				
Level of dust analysis?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Sample locations with AADT traffic?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Short lead time analysis (LPT) test?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Must you drop off from laboratory?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Wellhead location?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Control container used?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Why, control number?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
W. Temperature?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Soil used for lead test and lead?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Lead test using Method 302?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Number of containers/locations: <u>4</u> (MTR)	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Number of containers: <u>4</u>	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Test data Page #1	<u>Yes</u>	<u>No</u>	<u>Other</u>	:
Big matrix (copy label material)?	<u>Yes</u>	<u>No</u>	<u>Other</u>	:

Customer Name: CHRYSLER Job Date Request: PM AM

Client Name: CHRYSLER

Phone Contacted: _____ Date of call: _____

Project Manager: SGF Name: _____ Date: _____

Project Manager: SGF Name: _____ Date: _____



February 10, 2021

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92519942

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519942

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92519942

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92519942001	CR+0.4	Water	02/02/21 13:44	02/03/21 08:50
92519942002	CR+0.2	Water	02/02/21 13:51	02/03/21 08:50
92519942003	DW_US	Water	02/02/21 14:12	02/03/21 08:50
92519942004	DW_DS	Water	02/02/21 14:08	02/03/21 08:50
92519942005	CR-0.2	Water	02/02/21 14:21	02/03/21 08:50
92519942006	CR-0.5	Water	02/02/21 14:26	02/03/21 08:50
92519942007	CR-0.8	Water	02/02/21 14:30	02/03/21 08:50
92519942008	CR-0.1	Water	02/02/21 14:00	02/03/21 08:50

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92519942

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92519942001	CR+0.4	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92519942002	CR+0.2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92519942003	DW_US	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92519942004	DW_DS	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92519942005	CR-0.2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92519942006	CR-0.5	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92519942007	CR-0.8	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92519942008	CR-0.1	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92519942

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2450C-2011	AW1	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.: 92519942

Sample: CR+0.4	Lab ID: 92519942001	Collected: 02/02/21 13:44	Received: 02/03/21 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	02/04/21 09:45	02/05/21 18:15	7440-09-7	
Sodium	7.0	mg/L	1.0	1	02/04/21 09:45	02/05/21 18:15	7440-23-5	
Calcium	5.3	mg/L	1.0	1	02/04/21 09:45	02/05/21 18:15	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	02/04/21 09:45	02/05/21 18:15	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 16:40	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	02/04/21 10:04	02/07/21 16:40	7440-41-7	
Boron	ND	mg/L	0.040	1	02/04/21 10:04	02/07/21 16:40	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 16:40	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 16:40	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	27.0	mg/L	10.0	1		02/04/21 12:06		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	20.5	mg/L	5.0	1		02/05/21 22:32		
Alkalinity, Total as CaCO ₃	20.5	mg/L	5.0	1		02/05/21 22:32		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	6.3	mg/L	1.0	1		02/05/21 08:34	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/21 08:34	16984-48-8	
Sulfate	4.5	mg/L	1.0	1		02/05/21 08:34	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519942

Sample: CR+0.2	Lab ID: 92519942002	Collected: 02/02/21 13:51	Received: 02/03/21 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.7	mg/L	0.20	1	02/04/21 09:45	02/05/21 18:34	7440-09-7	
Sodium	6.8	mg/L	1.0	1	02/04/21 09:45	02/05/21 18:34	7440-23-5	
Calcium	5.0	mg/L	1.0	1	02/04/21 09:45	02/05/21 18:34	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	02/04/21 09:45	02/05/21 18:34	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 16:57	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	02/04/21 10:04	02/07/21 16:57	7440-41-7	
Boron	ND	mg/L	0.040	1	02/04/21 10:04	02/07/21 16:57	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 16:57	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 16:57	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	41.0	mg/L	10.0	1		02/04/21 12:07		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	20.4	mg/L	5.0	1		02/05/21 22:39		
Alkalinity, Total as CaCO ₃	20.4	mg/L	5.0	1		02/05/21 22:39		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	6.2	mg/L	1.0	1		02/05/21 09:40	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/21 09:40	16984-48-8	
Sulfate	4.4	mg/L	1.0	1		02/05/21 09:40	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519942

Sample: DW_US	Lab ID: 92519942003	Collected: 02/02/21 14:12	Received: 02/03/21 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.7	mg/L	0.20	1	02/04/21 09:45	02/05/21 18:39	7440-09-7	
Sodium	6.8	mg/L	1.0	1	02/04/21 09:45	02/05/21 18:39	7440-23-5	
Calcium	4.9	mg/L	1.0	1	02/04/21 09:45	02/05/21 18:39	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	02/04/21 09:45	02/05/21 18:39	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:03	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	02/04/21 10:04	02/07/21 17:03	7440-41-7	
Boron	ND	mg/L	0.040	1	02/04/21 10:04	02/07/21 17:03	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:03	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 17:03	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	29.0	mg/L	10.0	1		02/04/21 12:07		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	20.1	mg/L	5.0	1		02/05/21 22:47		
Alkalinity, Total as CaCO ₃	20.1	mg/L	5.0	1		02/05/21 22:47		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	6.1	mg/L	1.0	1		02/05/21 09:54	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/21 09:54	16984-48-8	
Sulfate	4.3	mg/L	1.0	1		02/05/21 09:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92519942

Sample: DW_DS		Lab ID: 92519942004	Collected: 02/02/21 14:08	Received: 02/03/21 08:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	2.7	mg/L	0.20	1	02/04/21 09:45	02/05/21 18:44	7440-09-7	
Sodium	6.9	mg/L	1.0	1	02/04/21 09:45	02/05/21 18:44	7440-23-5	
Calcium	5.1	mg/L	1.0	1	02/04/21 09:45	02/05/21 18:44	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	02/04/21 09:45	02/05/21 18:44	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:09	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	02/04/21 10:04	02/07/21 17:09	7440-41-7	
Boron	ND	mg/L	0.040	1	02/04/21 10:04	02/07/21 17:09	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:09	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 17:09	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	30.0	mg/L	10.0	1		02/04/21 12:07		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO ₃)	16.7	mg/L	5.0	1		02/05/21 23:01		
Alkalinity, Total as CaCO ₃	16.7	mg/L	5.0	1		02/05/21 23:01		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	6.1	mg/L	1.0	1		02/05/21 10:38	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/21 10:38	16984-48-8	
Sulfate	4.3	mg/L	1.0	1		02/05/21 10:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519942

Sample: CR-0.2	Lab ID: 92519942005	Collected: 02/02/21 14:21	Received: 02/03/21 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	02/04/21 09:45	02/05/21 18:58	7440-09-7	
Sodium	6.8	mg/L	1.0	1	02/04/21 09:45	02/05/21 18:58	7440-23-5	
Calcium	5.0	mg/L	1.0	1	02/04/21 09:45	02/05/21 18:58	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	02/04/21 09:45	02/05/21 18:58	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:15	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	02/04/21 10:04	02/07/21 17:15	7440-41-7	
Boron	ND	mg/L	0.040	1	02/04/21 10:04	02/07/21 17:15	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:15	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 17:15	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	38.0	mg/L	10.0	1		02/04/21 12:07		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	17.2	mg/L	5.0	1		02/05/21 23:10		
Alkalinity, Total as CaCO ₃	17.2	mg/L	5.0	1		02/05/21 23:10		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	6.2	mg/L	1.0	1		02/05/21 10:52	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/21 10:52	16984-48-8	
Sulfate	4.3	mg/L	1.0	1		02/05/21 10:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519942

Sample: CR-0.5	Lab ID: 92519942006	Collected: 02/02/21 14:26	Received: 02/03/21 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	02/04/21 09:45	02/05/21 19:03	7440-09-7	
Sodium	7.0	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:03	7440-23-5	
Calcium	5.2	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:03	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	02/04/21 09:45	02/05/21 19:03	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:20	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	02/04/21 10:04	02/07/21 17:20	7440-41-7	
Boron	ND	mg/L	0.040	1	02/04/21 10:04	02/07/21 17:20	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:20	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 17:20	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	31.0	mg/L	10.0	1		02/04/21 12:08		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	17.0	mg/L	5.0	1		02/05/21 23:19		
Alkalinity, Total as CaCO ₃	17.0	mg/L	5.0	1		02/05/21 23:19		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	6.2	mg/L	1.0	1		02/05/21 11:06	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/21 11:06	16984-48-8	
Sulfate	4.3	mg/L	1.0	1		02/05/21 11:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92519942

Sample: CR-0.8	Lab ID: 92519942007	Collected: 02/02/21 14:30	Received: 02/03/21 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	02/04/21 09:45	02/05/21 19:08	7440-09-7	
Sodium	7.0	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:08	7440-23-5	
Calcium	4.9	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:08	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	02/04/21 09:45	02/05/21 19:08	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:26	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	02/04/21 10:04	02/07/21 17:26	7440-41-7	
Boron	ND	mg/L	0.040	1	02/04/21 10:04	02/07/21 17:26	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:26	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 17:26	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	30.0	mg/L	10.0	1		02/04/21 12:08		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	17.0	mg/L	5.0	1		02/05/21 23:27		
Alkalinity, Total as CaCO ₃	17.0	mg/L	5.0	1		02/05/21 23:27		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	6.4	mg/L	1.0	1		02/05/21 11:21	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/21 11:21	16984-48-8	
Sulfate	4.5	mg/L	1.0	1		02/05/21 11:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519942

Sample: CR-0.1	Lab ID: 92519942008	Collected: 02/02/21 14:00	Received: 02/03/21 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	02/04/21 09:45	02/05/21 19:13	7440-09-7	
Sodium	7.0	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:13	7440-23-5	
Calcium	5.2	mg/L	1.0	1	02/04/21 09:45	02/05/21 19:13	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	02/04/21 09:45	02/05/21 19:13	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:32	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	02/04/21 10:04	02/07/21 17:32	7440-41-7	
Boron	ND	mg/L	0.040	1	02/04/21 10:04	02/07/21 17:32	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/04/21 10:04	02/07/21 17:32	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	02/04/21 10:04	02/07/21 17:32	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	25.0	mg/L	10.0	1		02/04/21 12:09		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	20.7	mg/L	5.0	1		02/05/21 23:34		
Alkalinity, Total as CaCO ₃	20.7	mg/L	5.0	1		02/05/21 23:34		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	6.6	mg/L	1.0	1		02/05/21 11:35	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/05/21 11:35	16984-48-8	
Sulfate	4.8	mg/L	1.0	1		02/05/21 11:35	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519942

QC Batch: 597431

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92519942001, 92519942002, 92519942003, 92519942004, 92519942005, 92519942006, 92519942007, 92519942008

METHOD BLANK: 3150491

Matrix: Water

Associated Lab Samples: 92519942001, 92519942002, 92519942003, 92519942004, 92519942005, 92519942006, 92519942007, 92519942008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	02/05/21 18:05	
Magnesium	mg/L	ND	0.050	02/05/21 18:05	
Potassium	mg/L	ND	0.20	02/05/21 18:05	
Sodium	mg/L	ND	1.0	02/05/21 18:05	

LABORATORY CONTROL SAMPLE: 3150492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	
Magnesium	mg/L	1	0.95	95	80-120	
Potassium	mg/L	1	1.1	115	80-120	
Sodium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3150493 3150494

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92519942001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Calcium	mg/L	5.3	1	1	6.2	6.3	92	103	75-125	2	20		
Magnesium	mg/L	2.1	1	1	3.0	3.1	95	97	75-125	1	20		
Potassium	mg/L	2.8	1	1	3.9	3.9	107	109	75-125	0	20		
Sodium	mg/L	7.0	1	1	8.0	8.1	99	112	75-125	2	20		

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

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519942

QC Batch: 597433 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92519942001, 92519942002, 92519942003, 92519942004, 92519942005, 92519942006, 92519942007, 92519942008

METHOD BLANK: 3150562 Matrix: Water
 Associated Lab Samples: 92519942001, 92519942002, 92519942003, 92519942004, 92519942005, 92519942006, 92519942007, 92519942008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	02/07/21 14:46	
Beryllium	mg/L	ND	0.00050	02/07/21 14:46	
Boron	mg/L	ND	0.040	02/07/21 14:46	
Cobalt	mg/L	ND	0.0050	02/07/21 14:46	
Molybdenum	mg/L	ND	0.010	02/07/21 14:46	

LABORATORY CONTROL SAMPLE: 3150563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3150564 3150565

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92519266022 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic	mg/L	1.4J ug/L	0.1	0.1	0.10	0.10	101	100	75-125	1	20
Beryllium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20
Boron	mg/L	587 ug/L	1	1	1.6	1.5	97	96	75-125	1	20
Cobalt	mg/L	1.4J ug/L	0.1	0.1	0.10	0.096	99	95	75-125	5	20
Molybdenum	mg/L	14.0 ug/L	0.1	0.1	0.12	0.12	103	101	75-125	2	20

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92519942

QC Batch: 597549 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92519942001, 92519942002, 92519942003, 92519942004, 92519942005, 92519942006, 92519942007, 92519942008

METHOD BLANK: 3150931 Matrix: Water
 Associated Lab Samples: 92519942001, 92519942002, 92519942003, 92519942004, 92519942005, 92519942006, 92519942007, 92519942008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/04/21 12:04	

LABORATORY CONTROL SAMPLE: 3150932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	84-108	

SAMPLE DUPLICATE: 3150933

Parameter	Units	92519931002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	43.0	5	10	

SAMPLE DUPLICATE: 3150934

Parameter	Units	92519942006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	31.0	33.0	6	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92519942

QC Batch: 598016 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92519942001, 92519942002, 92519942003, 92519942004, 92519942005, 92519942006, 92519942007, 92519942008

METHOD BLANK: 3153367 Matrix: Water
 Associated Lab Samples: 92519942001, 92519942002, 92519942003, 92519942004, 92519942005, 92519942006, 92519942007, 92519942008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/05/21 20:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/05/21 20:00	

LABORATORY CONTROL SAMPLE: 3153368

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: 3153369 3153370

Parameter	Units	92518671027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3153371 3153372

Parameter	Units	92519484005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519942

QC Batch: 597589 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: 92519942001, 92519942002, 92519942003, 92519942004, 92519942005, 92519942006, 92519942007, 92519942008

METHOD BLANK: 3151020 Matrix: Water
 Associated Lab Samples: 92519942001, 92519942002, 92519942003, 92519942004, 92519942005, 92519942006, 92519942007, 92519942008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/05/21 08:05	
Fluoride	mg/L	ND	0.10	02/05/21 08:05	
Sulfate	mg/L	ND	1.0	02/05/21 08:05	

LABORATORY CONTROL SAMPLE: 3151021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.2	94	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3151022 3151023

Parameter	Units	92519942001		3151023		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	6.3	50	50	52.7	53.2	93	94	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	93	95	90-110	2	10
Sulfate	mg/L	4.5	50	50	51.7	51.9	94	95	90-110	0	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3151024 3151025

Parameter	Units	92519959003		3151025		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	9.9	50	50	57.4	57.2	95	95	90-110	0	10
Fluoride	mg/L	0.17	2.5	2.5	2.5	2.5	94	94	90-110	0	10
Sulfate	mg/L	16.5	50	50	64.4	64.3	96	96	90-110	0	10

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QUALIFIERS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92519942

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92519942

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92519942001	CR+0.4	EPA 3010A	597431	EPA 6010D	597695
92519942002	CR+0.2	EPA 3010A	597431	EPA 6010D	597695
92519942003	DW_US	EPA 3010A	597431	EPA 6010D	597695
92519942004	DW_DS	EPA 3010A	597431	EPA 6010D	597695
92519942005	CR-0.2	EPA 3010A	597431	EPA 6010D	597695
92519942006	CR-0.5	EPA 3010A	597431	EPA 6010D	597695
92519942007	CR-0.8	EPA 3010A	597431	EPA 6010D	597695
92519942008	CR-0.1	EPA 3010A	597431	EPA 6010D	597695
92519942001	CR+0.4	EPA 3005A	597433	EPA 6020B	597742
92519942002	CR+0.2	EPA 3005A	597433	EPA 6020B	597742
92519942003	DW_US	EPA 3005A	597433	EPA 6020B	597742
92519942004	DW_DS	EPA 3005A	597433	EPA 6020B	597742
92519942005	CR-0.2	EPA 3005A	597433	EPA 6020B	597742
92519942006	CR-0.5	EPA 3005A	597433	EPA 6020B	597742
92519942007	CR-0.8	EPA 3005A	597433	EPA 6020B	597742
92519942008	CR-0.1	EPA 3005A	597433	EPA 6020B	597742
92519942001	CR+0.4	SM 2450C-2011	597549		
92519942002	CR+0.2	SM 2450C-2011	597549		
92519942003	DW_US	SM 2450C-2011	597549		
92519942004	DW_DS	SM 2450C-2011	597549		
92519942005	CR-0.2	SM 2450C-2011	597549		
92519942006	CR-0.5	SM 2450C-2011	597549		
92519942007	CR-0.8	SM 2450C-2011	597549		
92519942008	CR-0.1	SM 2450C-2011	597549		
92519942001	CR+0.4	SM 2320B-2011	598016		
92519942002	CR+0.2	SM 2320B-2011	598016		
92519942003	DW_US	SM 2320B-2011	598016		
92519942004	DW_DS	SM 2320B-2011	598016		
92519942005	CR-0.2	SM 2320B-2011	598016		
92519942006	CR-0.5	SM 2320B-2011	598016		
92519942007	CR-0.8	SM 2320B-2011	598016		
92519942008	CR-0.1	SM 2320B-2011	598016		
92519942001	CR+0.4	EPA 300.0 Rev 2.1 1993	597589		
92519942002	CR+0.2	EPA 300.0 Rev 2.1 1993	597589		
92519942003	DW_US	EPA 300.0 Rev 2.1 1993	597589		
92519942004	DW_DS	EPA 300.0 Rev 2.1 1993	597589		
92519942005	CR-0.2	EPA 300.0 Rev 2.1 1993	597589		
92519942006	CR-0.5	EPA 300.0 Rev 2.1 1993	597589		
92519942007	CR-0.8	EPA 300.0 Rev 2.1 1993	597589		
92519942008	CR-0.1	EPA 300.0 Rev 2.1 1993	597589		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page **01** of **01**

Section A Requester Contact Information	Section B Requester Request Information	Section C Requester Info Details	Section D Requester Agency
Company: <u>AMCOG, L. Inc.</u>	Request to: <u>sample analysis</u>	Case No: _____	Agency Name: _____
Address: <u>1000 North 1st St</u>	Copy to: <u>cop samples and packaging</u>	Requester Name: _____	Requester Title: _____
City: <u>Atlanta, GA 30303</u>	Requester Contact: <u>202-234-1111</u>	Address: _____	Requester Agency: _____
Phone: <u>404-525-1111</u>	Requester Email: <u>amco@amco.com</u>	Requester Title: _____	Requester Agency: _____
Requester Date: <u>12/17/14</u>	Requester: _____	Requester Manager: <u>AMCOG, L. Inc.</u>	Requester Agency: _____

ITEM #	SAMPLE ID Case Number: <u>14-2-1014</u> Request Number: <u>14-2-1014</u>	DATE RECEIVED	ANALYSIS REQUESTED	COLLECTION				LABORATORY LOCATION	PRESERVATION							ANALYSIS TESTS				ANALYSIS COMMENTS
				DATE		TIME			TEMPERATURE	METHOD	MATERIAL	MATERIAL	MATERIAL	MATERIAL	MATERIAL	MATERIAL	MATERIAL	MATERIAL		
				DATE	TIME	DATE	TIME													
1	Sample 1	12/17/14	12:00	12:00																
2	Sample 2	12/17/14	12:00	12:00																
3	Sample 3	12/17/14	12:00	12:00																
4	Sample 4	12/17/14	12:00	12:00																
5	Sample 5	12/17/14	12:00	12:00																
6	Sample 6	12/17/14	12:00	12:00																
7	Sample 7	12/17/14	12:00	12:00																
8	Sample 8	12/17/14	12:00	12:00																
9																				
10																				
11																				
12																				

ANALYSIS COMMENTS	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS LOCATION	ANALYSIS METHOD	ANALYSIS MATERIAL	ANALYSIS COMMENTS
<u>AMCOG, L. Inc.</u>	<u>12/17/14</u>	<u>12:00</u>	<u>1000 North 1st St</u>	<u>12:00</u>	<u>1000 North 1st St</u>	<u>AMCOG, L. Inc.</u>

WO# : 92519942

92519942

ANALYSIS DATE	ANALYSIS TIME	ANALYSIS LOCATION	ANALYSIS METHOD	ANALYSIS MATERIAL	ANALYSIS COMMENTS
12/17/14	12:00	1000 North 1st St	12:00	1000 North 1st St	AMCOG, L. Inc.



USP & IP COMPLIANT
 Scientific Glassware Wash & Sterilization
 Laboratory Wash & Sterilization
 Cleaning & Disinfection

Customer Service Center
 1-800-875-2333
 10000
 10000
 10000

Laboratory receiving samples:

Ashleyville Eden Freshwood Humenville Raleigh Mechanicsville Atlanta Kernersville

Customer ID: 10000

Client Name: _____ Project ID: _____

WO#: 92519942
 PH: PP Due Date: 07/04/23
 CLIENT: Co-Research

Container: Common Special Other

Seal/Body Intact? Yes No

Destination: Project/Client/Region: 2 3 2: KRW

Sealing Material: Double Wrap Double Bags Other
 Parameters: _____

Biological Transport Protocol: Yes No

Cooler Temp: _____ Extension Factor: _____

Temp should be above freezing (0°C) [checked] and below 5°C [checked]

Code - Temp Controlled (Y/N) _____
 Code - Special Handling (Y/N) _____
 Code - Special Handling (Y/N) _____

Use appropriate packaging for transport (see instructions) [checked]
 Use appropriate packaging for transport (see instructions) [checked]

Level of Contamination?	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Low	<input type="checkbox"/> None	1
Seals are intact when box is open?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> None	1
Double bagging done according to instructions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> None	1
Box kept upright from packaging?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> None	1
Seals intact when box is open?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> None	1
Correct Container Used? (see instructions)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> None	1
Temperature checked?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> None	1
Shipped and analyzed in accordance with instructions?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> None	1
Temperature checked at destination?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> None	1

Inspected/Sealed/Disinfectant: Material: UAT

Inspected/Sealed/Disinfectant: Material:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> None	1
Inspected/Sealed/Disinfectant: Material:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> None	1
Inspected/Sealed/Disinfectant: Material:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> None	1

Reference: _____

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Signature: _____

UNIT: _____
 Date: _____

APPENDIX A

Surface Water Laboratory Analytical Data
March 2021



March 16, 2021

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92526568

Dear Kelley Sharpe:

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

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

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

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526568001	CR+0.4	Water	03/09/21 13:35	03/09/21 16:17
92526568002	CR+0.2	Water	03/09/21 13:45	03/09/21 16:17
92526568003	Dewatering Upstream	Water	03/09/21 14:20	03/09/21 16:17
92526568004	Dewatering Downstream	Water	03/09/21 14:00	03/09/21 16:17
92526568005	CR-0.2	Water	03/09/21 14:45	03/09/21 16:17
92526568006	CR-0.5	Water	03/09/21 14:55	03/09/21 16:17
92526568007	CR-0.8	Water	03/09/21 15:00	03/09/21 16:17
92526568008	CR-0.1	Water	03/09/21 13:55	03/09/21 16:17

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92526568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526568001	CR+0.4	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		EPA 9040C	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
92526568002	CR+0.2	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		EPA 9040C	AW1	1	PASI-GA
92526568003	Dewatering Upstream	SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
92526568004	Dewatering Downstream	EPA 9040C	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
92526568005	CR-0.2	SM 2450C-2011	ALW	1	PASI-GA
		EPA 9040C	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
92526568006	CR-0.5	EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		EPA 9040C	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92526568007	CR-0.8	EPA 6010D	DRB	4	PASI-GA

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		EPA 9040C	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92526568008	CR-0.1	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		EPA 9040C	AW1	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.: 92526568

Sample: CR+0.4	Lab ID: 92526568001	Collected: 03/09/21 13:35	Received: 03/09/21 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	1	03/10/21 12:23	03/11/21 08:32	7440-09-7	
Sodium	6.5	mg/L	1.0	1	03/10/21 12:23	03/11/21 08:32	7440-23-5	M1
Calcium	4.7	mg/L	1.0	1	03/10/21 12:23	03/11/21 08:32	7440-70-2	M1
Magnesium	2.2	mg/L	0.050	1	03/10/21 12:23	03/11/21 08:32	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 17:50	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	03/10/21 12:03	03/10/21 17:50	7440-41-7	
Boron	ND	mg/L	0.040	1	03/10/21 12:03	03/10/21 17:50	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 17:50	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 17:50	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	42.0	mg/L	10.0	1		03/10/21 09:40		
9040 pH								
Analytical Method: EPA 9040C								
Pace Analytical Services - Peachtree Corners, GA								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		03/11/21 23:08		H3,H6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	17.7	mg/L	5.0	1		03/16/21 02:47		
Alkalinity, Total as CaCO3	17.7	mg/L	5.0	1		03/16/21 02:47		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	7.0	mg/L	1.0	1		03/11/21 16:06	16887-00-6	
Fluoride	ND	mg/L	0.10	1		03/11/21 16:06	16984-48-8	
Sulfate	4.3	mg/L	1.0	1		03/11/21 16:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

Sample: CR+0.2 **Lab ID: 92526568002** Collected: 03/09/21 13:45 Received: 03/09/21 16:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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6010D ATL ICP

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

Potassium	2.7	mg/L	0.20	1	03/10/21 12:23	03/11/21 23:05	7440-09-7	
Sodium	6.7	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:05	7440-23-5	
Calcium	5.2	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:05	7440-70-2	
Magnesium	2.2	mg/L	0.050	1	03/10/21 12:23	03/11/21 23:05	7439-95-4	

6020 MET ICPMS

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

Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:13	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	03/10/21 12:03	03/10/21 18:13	7440-41-7	
Boron	ND	mg/L	0.040	1	03/10/21 12:03	03/10/21 18:13	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:13	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 18:13	7439-98-7	

2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	28.0	mg/L	10.0	1		03/10/21 09:40		
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9040 pH

Analytical Method: EPA 9040C
Pace Analytical Services - Peachtree Corners, GA

pH at 25 Degrees C	7.3	Std. Units	0.10	1		03/11/21 23:13		H3,H6
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	17.3	mg/L	5.0	1		03/16/21 02:53		
Alkalinity, Total as CaCO3	17.3	mg/L	5.0	1		03/16/21 02:53		

300.0 IC Anions 28 Days

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

Chloride	6.4	mg/L	1.0	1		03/11/21 16:51	16887-00-6	
Fluoride	ND	mg/L	0.10	1		03/11/21 16:51	16984-48-8	
Sulfate	3.8	mg/L	1.0	1		03/11/21 16:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

Sample: Dewatering Upstream	Lab ID: 92526568003	Collected: 03/09/21 14:20	Received: 03/09/21 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.7	mg/L	0.20	1	03/10/21 12:23	03/11/21 23:10	7440-09-7	
Sodium	6.8	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:10	7440-23-5	
Calcium	5.4	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:10	7440-70-2	
Magnesium	2.2	mg/L	0.050	1	03/10/21 12:23	03/11/21 23:10	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:18	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	03/10/21 12:03	03/10/21 18:18	7440-41-7	
Boron	ND	mg/L	0.040	1	03/10/21 12:03	03/10/21 18:18	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:18	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 18:18	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	28.0	mg/L	10.0	1		03/10/21 09:40		
9040 pH								
Analytical Method: EPA 9040C								
Pace Analytical Services - Peachtree Corners, GA								
pH at 25 Degrees C	7.1	Std. Units	0.10	1		03/15/21 07:02		H3,H6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	17.4	mg/L	5.0	1		03/16/21 03:00		
Alkalinity, Total as CaCO3	17.4	mg/L	5.0	1		03/16/21 03:00		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	6.4	mg/L	1.0	1		03/11/21 17:06	16887-00-6	
Fluoride	ND	mg/L	0.10	1		03/11/21 17:06	16984-48-8	
Sulfate	3.7	mg/L	1.0	1		03/11/21 17:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

Sample: Dewatering Downstream **Lab ID: 92526568004** Collected: 03/09/21 14:00 Received: 03/09/21 16:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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6010D ATL ICP

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

Potassium	2.6	mg/L	0.20	1	03/10/21 12:23	03/11/21 23:15	7440-09-7	
Sodium	6.4	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:15	7440-23-5	
Calcium	5.1	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:15	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	03/10/21 12:23	03/11/21 23:15	7439-95-4	

6020 MET ICPMS

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

Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:24	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	03/10/21 12:03	03/10/21 18:24	7440-41-7	
Boron	ND	mg/L	0.040	1	03/10/21 12:03	03/10/21 18:24	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:24	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 18:24	7439-98-7	

2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	47.0	mg/L	10.0	1		03/10/21 09:40		
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9040 pH

Analytical Method: EPA 9040C
Pace Analytical Services - Peachtree Corners, GA

pH at 25 Degrees C	7.3	Std. Units	0.10	1		03/15/21 06:57		H3,H6
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	17.4	mg/L	5.0	1		03/16/21 03:18		
Alkalinity, Total as CaCO3	17.4	mg/L	5.0	1		03/16/21 03:18		

300.0 IC Anions 28 Days

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

Chloride	6.2	mg/L	1.0	1		03/11/21 17:21	16887-00-6	
Fluoride	ND	mg/L	0.10	1		03/11/21 17:21	16984-48-8	
Sulfate	3.6	mg/L	1.0	1		03/11/21 17:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

Sample: CR-0.2 **Lab ID: 92526568005** Collected: 03/09/21 14:45 Received: 03/09/21 16:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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6010D ATL ICP

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

Potassium	2.7	mg/L	0.20	1	03/10/21 12:23	03/11/21 23:20	7440-09-7	
Sodium	6.6	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:20	7440-23-5	
Calcium	5.2	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:20	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	03/10/21 12:23	03/11/21 23:20	7439-95-4	

6020 MET ICPMS

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

Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:30	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	03/10/21 12:03	03/10/21 18:30	7440-41-7	
Boron	ND	mg/L	0.040	1	03/10/21 12:03	03/10/21 18:30	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:30	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 18:30	7439-98-7	

2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	50.0	mg/L	10.0	1		03/10/21 09:40		
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9040 pH

Analytical Method: EPA 9040C
Pace Analytical Services - Peachtree Corners, GA

pH at 25 Degrees C	7.0	Std. Units	0.10	1		03/15/21 07:04		H3,H6
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity, Bicarbonate (CaCO ₃)	17.6	mg/L	5.0	1		03/16/21 03:25		
Alkalinity, Total as CaCO ₃	17.6	mg/L	5.0	1		03/16/21 03:25		

300.0 IC Anions 28 Days

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

Chloride	6.6	mg/L	1.0	1		03/11/21 17:36	16887-00-6	
Fluoride	ND	mg/L	0.10	1		03/11/21 17:36	16984-48-8	
Sulfate	3.8	mg/L	1.0	1		03/11/21 17:36	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92526568

Sample: CR-0.5	Lab ID: 92526568006	Collected: 03/09/21 14:55	Received: 03/09/21 16:17	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.7	mg/L	0.20	1	03/10/21 12:23	03/11/21 23:25	7440-09-7		
Sodium	6.9	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:25	7440-23-5		
Calcium	5.5	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:25	7440-70-2		
Magnesium	2.1	mg/L	0.050	1	03/10/21 12:23	03/11/21 23:25	7439-95-4		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:47	7440-38-2		
Beryllium	ND	mg/L	0.00050	1	03/10/21 12:03	03/10/21 18:47	7440-41-7		
Boron	ND	mg/L	0.040	1	03/10/21 12:03	03/10/21 18:47	7440-42-8		
Cobalt	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:47	7440-48-4		
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 18:47	7439-98-7		
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	77.0	mg/L	10.0	1		03/10/21 09:41			
9040 pH									
Analytical Method: EPA 9040C									
Pace Analytical Services - Peachtree Corners, GA									
pH at 25 Degrees C	7.0	Std. Units	0.10	1		03/15/21 07:05			H3,H6
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	17.0	mg/L	5.0	1		03/16/21 03:32			
Alkalinity, Total as CaCO3	17.0	mg/L	5.0	1		03/16/21 03:32			
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.7	mg/L	1.0	1		03/11/21 17:50	16887-00-6		
Fluoride	ND	mg/L	0.10	1		03/11/21 17:50	16984-48-8		
Sulfate	3.7	mg/L	1.0	1		03/11/21 17:50	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

Sample: CR-0.8	Lab ID: 92526568007	Collected: 03/09/21 15:00	Received: 03/09/21 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.6	mg/L	0.20	1	03/10/21 12:23	03/11/21 23:29	7440-09-7	
Sodium	6.5	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:29	7440-23-5	
Calcium	5.0	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:29	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	03/10/21 12:23	03/11/21 23:29	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:53	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	03/10/21 12:03	03/10/21 18:53	7440-41-7	
Boron	ND	mg/L	0.040	1	03/10/21 12:03	03/10/21 18:53	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:53	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 18:53	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	21.0	mg/L	10.0	1		03/10/21 09:41		
9040 pH								
Analytical Method: EPA 9040C								
Pace Analytical Services - Peachtree Corners, GA								
pH at 25 Degrees C	7.1	Std. Units	0.10	1		03/15/21 07:06		H3,H6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	17.2	mg/L	5.0	1		03/16/21 03:38		
Alkalinity, Total as CaCO3	17.2	mg/L	5.0	1		03/16/21 03:38		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	6.3	mg/L	1.0	1		03/11/21 18:35	16887-00-6	
Fluoride	ND	mg/L	0.10	1		03/11/21 18:35	16984-48-8	
Sulfate	3.8	mg/L	1.0	1		03/11/21 18:35	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

Sample: CR-0.1 **Lab ID: 92526568008** Collected: 03/09/21 13:55 Received: 03/09/21 16:17 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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6010D ATL ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Potassium	2.7	mg/L	0.20	1	03/10/21 12:23	03/11/21 23:34	7440-09-7	
Sodium	6.6	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:34	7440-23-5	
Calcium	5.3	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:34	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	03/10/21 12:23	03/11/21 23:34	7439-95-4	

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

Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:58	7440-38-2	
Beryllium	ND	mg/L	0.00050	1	03/10/21 12:03	03/10/21 18:58	7440-41-7	
Boron	ND	mg/L	0.040	1	03/10/21 12:03	03/10/21 18:58	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 18:58	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 18:58	7439-98-7	

2540C Total Dissolved Solids Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	45.0	mg/L	10.0	1		03/10/21 09:41		
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9040 pH Analytical Method: EPA 9040C
Pace Analytical Services - Peachtree Corners, GA

pH at 25 Degrees C	7.2	Std. Units	0.10	1		03/11/21 23:19		H3,H6
--------------------	-----	------------	------	---	--	----------------	--	-------

2320B Alkalinity Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	17.2	mg/L	5.0	1		03/16/21 03:46		
Alkalinity, Total as CaCO3	17.2	mg/L	5.0	1		03/16/21 03:46		

300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	6.5	mg/L	1.0	1		03/11/21 18:50	16887-00-6	
Fluoride	ND	mg/L	0.10	1		03/11/21 18:50	16984-48-8	
Sulfate	4.2	mg/L	1.0	1		03/11/21 18:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

QC Batch:	605550	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526568001, 92526568002, 92526568003, 92526568004, 92526568005, 92526568006, 92526568007, 92526568008

METHOD BLANK: 3190077 Matrix: Water

Associated Lab Samples: 92526568001, 92526568002, 92526568003, 92526568004, 92526568005, 92526568006, 92526568007, 92526568008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	03/11/21 08:22	
Magnesium	mg/L	ND	0.050	03/11/21 08:22	
Potassium	mg/L	ND	0.20	03/11/21 08:22	
Sodium	mg/L	ND	1.0	03/11/21 08:22	

LABORATORY CONTROL SAMPLE: 3190078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	.92J	92	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	0.85	85	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3190079 3190080

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526568001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	4.7	1	1	5.6	5.4	84	70	75-125	2	20 M1
Magnesium	mg/L	2.2	1	1	3.2	3.2	101	94	75-125	2	20
Potassium	mg/L	2.6	1	1	3.5	3.5	99	91	75-125	3	20
Sodium	mg/L	6.5	1	1	7.3	7.1	83	63	75-125	3	20 M1

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

QC Batch:	605530	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526568001, 92526568002, 92526568003, 92526568004, 92526568005, 92526568006, 92526568007, 92526568008

METHOD BLANK: 3189971 Matrix: Water

Associated Lab Samples: 92526568001, 92526568002, 92526568003, 92526568004, 92526568005, 92526568006, 92526568007, 92526568008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	03/10/21 17:38	
Beryllium	mg/L	ND	0.00050	03/10/21 17:38	
Boron	mg/L	ND	0.040	03/10/21 17:38	
Cobalt	mg/L	ND	0.0050	03/10/21 17:38	
Molybdenum	mg/L	ND	0.010	03/10/21 17:38	

LABORATORY CONTROL SAMPLE: 3189972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189973 3189974

Parameter	Units	92526568001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.096	98	96	75-125	2	20	
Boron	mg/L	ND	1	1	1.0	0.99	99	97	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	97	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92526568

QC Batch: 605445 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526568001, 92526568002, 92526568003, 92526568004, 92526568005, 92526568006, 92526568007, 92526568008

METHOD BLANK: 3189630 Matrix: Water
 Associated Lab Samples: 92526568001, 92526568002, 92526568003, 92526568004, 92526568005, 92526568006, 92526568007, 92526568008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	03/10/21 09:39	

LABORATORY CONTROL SAMPLE: 3189631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	90-111	

SAMPLE DUPLICATE: 3189632

Parameter	Units	92526563001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1350	1390	3	10	

SAMPLE DUPLICATE: 3189633

Parameter	Units	92526568008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	46.0	2	10	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92526568

QC Batch: 606012 Analysis Method: EPA 9040C
 QC Batch Method: EPA 9040C Analysis Description: 9040 pH
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526568001, 92526568002, 92526568008

SAMPLE DUPLICATE: 3192744

Parameter	Units	92525947001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	0	9	H3,H6

SAMPLE DUPLICATE: 3193332

Parameter	Units	92526541002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	9	H3,H6

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

QC Batch: 606506

Analysis Method: EPA 9040C

QC Batch Method: EPA 9040C

Analysis Description: 9040 pH

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526568003, 92526568004, 92526568005, 92526568006, 92526568007

SAMPLE DUPLICATE: 3195363

Parameter	Units	92526574004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	10	H3,H6

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92526568

QC Batch: 606758 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92526568001, 92526568002, 92526568003, 92526568004, 92526568005, 92526568006, 92526568007, 92526568008

METHOD BLANK: 3196779 Matrix: Water
 Associated Lab Samples: 92526568001, 92526568002, 92526568003, 92526568004, 92526568005, 92526568006, 92526568007, 92526568008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	03/16/21 01:47	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	03/16/21 01:47	

LABORATORY CONTROL SAMPLE: 3196780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196781 3196782

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526544001 Result	Spike Conc.	Spike Conc.	Conc.								
Alkalinity, Total as CaCO3	mg/L	68.3	50	50	50	116	118	96	99	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196783 3196784

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526568008 Result	Spike Conc.	Spike Conc.	Conc.								
Alkalinity, Total as CaCO3	mg/L	17.2	50	50	50	68.6	68.8	103	103	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

QC Batch:	605460	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: 92526568001, 92526568002, 92526568003, 92526568004, 92526568005, 92526568006, 92526568007, 92526568008

METHOD BLANK:	3189677	Matrix:	Water
Associated Lab Samples:	92526568001, 92526568002, 92526568003, 92526568004, 92526568005, 92526568006, 92526568007, 92526568008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	03/11/21 15:36	
Fluoride	mg/L	ND	0.10	03/11/21 15:36	
Sulfate	mg/L	ND	1.0	03/11/21 15:36	

LABORATORY CONTROL SAMPLE: 3189678						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189679												3189680	
Parameter	Units	92526568001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Chloride	mg/L	7.0	50	50	55.2	55.6	96	97	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	99	100	90-110	1	10		
Sulfate	mg/L	4.3	50	50	53.1	53.7	98	99	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189681												3189682	
Parameter	Units	92526576003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Chloride	mg/L	10.4	50	50	58.0	59.0	95	97	90-110	2	10		
Fluoride	mg/L	0.49	2.5	2.5	2.9	3.0	98	101	90-110	2	10		
Sulfate	mg/L	12.9	50	50	61.4	62.4	97	99	90-110	2	10		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526568

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

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.: 92526568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526568001	CR+0.4	EPA 3010A	605550	EPA 6010D	605629
92526568002	CR+0.2	EPA 3010A	605550	EPA 6010D	605629
92526568003	Dewatering Upstream	EPA 3010A	605550	EPA 6010D	605629
92526568004	Dewatering Downstream	EPA 3010A	605550	EPA 6010D	605629
92526568005	CR-0.2	EPA 3010A	605550	EPA 6010D	605629
92526568006	CR-0.5	EPA 3010A	605550	EPA 6010D	605629
92526568007	CR-0.8	EPA 3010A	605550	EPA 6010D	605629
92526568008	CR-0.1	EPA 3010A	605550	EPA 6010D	605629
92526568001	CR+0.4	EPA 3005A	605530	EPA 6020B	605631
92526568002	CR+0.2	EPA 3005A	605530	EPA 6020B	605631
92526568003	Dewatering Upstream	EPA 3005A	605530	EPA 6020B	605631
92526568004	Dewatering Downstream	EPA 3005A	605530	EPA 6020B	605631
92526568005	CR-0.2	EPA 3005A	605530	EPA 6020B	605631
92526568006	CR-0.5	EPA 3005A	605530	EPA 6020B	605631
92526568007	CR-0.8	EPA 3005A	605530	EPA 6020B	605631
92526568008	CR-0.1	EPA 3005A	605530	EPA 6020B	605631
92526568001	CR+0.4	SM 2450C-2011	605445		
92526568002	CR+0.2	SM 2450C-2011	605445		
92526568003	Dewatering Upstream	SM 2450C-2011	605445		
92526568004	Dewatering Downstream	SM 2450C-2011	605445		
92526568005	CR-0.2	SM 2450C-2011	605445		
92526568006	CR-0.5	SM 2450C-2011	605445		
92526568007	CR-0.8	SM 2450C-2011	605445		
92526568008	CR-0.1	SM 2450C-2011	605445		
92526568001	CR+0.4	EPA 9040C	606012		
92526568002	CR+0.2	EPA 9040C	606012		
92526568003	Dewatering Upstream	EPA 9040C	606506		
92526568004	Dewatering Downstream	EPA 9040C	606506		
92526568005	CR-0.2	EPA 9040C	606506		
92526568006	CR-0.5	EPA 9040C	606506		
92526568007	CR-0.8	EPA 9040C	606506		
92526568008	CR-0.1	EPA 9040C	606012		
92526568001	CR+0.4	SM 2320B-2011	606758		
92526568002	CR+0.2	SM 2320B-2011	606758		
92526568003	Dewatering Upstream	SM 2320B-2011	606758		
92526568004	Dewatering Downstream	SM 2320B-2011	606758		
92526568005	CR-0.2	SM 2320B-2011	606758		
92526568006	CR-0.5	SM 2320B-2011	606758		
92526568007	CR-0.8	SM 2320B-2011	606758		
92526568008	CR-0.1	SM 2320B-2011	606758		
92526568001	CR+0.4	EPA 300.0 Rev 2.1 1993	605460		
92526568002	CR+0.2	EPA 300.0 Rev 2.1 1993	605460		
92526568003	Dewatering Upstream	EPA 300.0 Rev 2.1 1993	605460		
92526568004	Dewatering Downstream	EPA 300.0 Rev 2.1 1993	605460		
92526568005	CR-0.2	EPA 300.0 Rev 2.1 1993	605460		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92526568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526568006	CR-0.5	EPA 300.0 Rev 2.1 1993	605460		
92526568007	CR-0.8	EPA 300.0 Rev 2.1 1993	605460		
92526568008	CR-0.1	EPA 300.0 Rev 2.1 1993	605460		

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CHAIN OF CUSTODY / Analytical Request Distribution
 The Chain of Custody is a record of the handling of evidence to ensure the integrity of the evidence.

Report # _____ Section # _____

Case # _____ Requested By _____ Requested For _____

Request Date _____ Requested By (Signature) _____ Requested For (Signature) _____

Item #	Description	Quantity	Unit	Collector		Date	Time	Signature	Title	Agency	Remarks
				First	Last						
1	Sample ID										
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

MO#: 92526568

Signature: _____ Date: 5-4-21

Page 24 of 25



Document type
 34 mg/L Lead in amalgam filling of cavity
 Document No
 4-248-14011 Rev 07

Document Revised October 26, 2007
 Page 1 of 2
 PHL 12-21-2008
 Pine Valley/Delta 04/08

Laboratory receiving samples:

Ashville Eden Greenwood Horseville Raleigh Mechanicsville Atlanta Knoxville

Sample ID: **92526568**

Client Name: Armedis - Hillsboro

Project #

WO#: 92526568

PN: 00 Due Date: 03/12/21
 CLIENT: GA-Ashville

Collection: Hand Collected Final Final Final

Container Size: 100 mL 250 mL 500 mL 1 L 2 L

Use of Lead Free Solder: 3/4/21 KLM

Packing Material: Protective None None None

Biological Threat (Form):
 Yes No

Temperature: Hand Collected 110-230 None None None

Cooler Temp: 13.9 Advised 0

Keep these files at all times to 4°C
 Comments on long term storage conditions, cooling method, etc. Input

Cooler Temp-Comment: 13.9

USDA Regulated Soil? Yes, with ID# 001
 D-Sampled composite number of total fresh bulk material (e.g., 100g, 500g, 1kg)?

Do labels originate from a lab or field site? Yes No

Original Sample Request	QC	LM	EM	Count	Comments/Significance
24 mg/L Lead in amalgam filling of Final?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
Lead in Final Analyzed (ug/L) <u>11.2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
Lead in Final Analyzed (mg/Amalgam)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	<u>7 mg/g</u>
Amalgam Analyzed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
Control Container Sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	
Blank Container Sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
Container Sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
Is sample analyzed for lead by laboratory?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	
Sample label Mark CDC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	<u>Label 0-4 Done - started 7/8/21, which differs from our CDC.</u>
Method: <u>Direct Final Analyzed</u> Matrix: <u>WT</u>					
Is sample analyzed for lead by laboratory?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16	
Sample label Mark CDC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16	
Is label correctly Mark CDC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Special requests: Final LM

Lot # of lead container:

Person contacted: _____ Email to: _____
 Project Manager SOL IP Review: _____ Date: _____
 Project Manager OIP Review: _____ Date: _____



March 16, 2021

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92526576

Dear Kelley Sharpe:

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

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

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

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

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526576

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92526576

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526576001	UT01_US	Water	03/09/21 13:55	03/09/21 16:17
92526576002	UT02	Water	03/09/21 14:05	03/09/21 16:17
92526576003	UT01_DS	Water	03/09/21 13:30	03/09/21 16:17
92526576004	UT03	Water	03/09/21 13:38	03/09/21 16:17

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SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92526576

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526576001	UT01_US	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		EPA 9040C	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92526576002	UT02	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		EPA 9040C	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92526576003	UT01_DS	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		EPA 9040C	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92526576004	UT03	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2450C-2011	ALW	1	PASI-GA
		EPA 9040C	AW1	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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526576

Sample: UT01_US	Lab ID: 92526576001	Collected: 03/09/21 13:55	Received: 03/09/21 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	03/10/21 12:23	03/11/21 23:39	7440-09-7	
Sodium	11.7	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:39	7440-23-5	
Calcium	14.1	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:39	7440-70-2	
Magnesium	2.9	mg/L	0.050	1	03/10/21 12:23	03/11/21 23:39	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 19:04	7440-38-2	
Boron	ND	mg/L	0.040	1	03/10/21 12:03	03/10/21 19:04	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 19:04	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	80.0	mg/L	10.0	1		03/10/21 09:41		
9040 pH								
Analytical Method: EPA 9040C								
Pace Analytical Services - Peachtree Corners, GA								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		03/11/21 23:23		H3,H6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	40.0	mg/L	5.0	1		03/16/21 05:21		
Alkalinity, Total as CaCO3	40.0	mg/L	5.0	1		03/16/21 05:21		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	11.2	mg/L	1.0	1		03/11/21 19:05	16887-00-6	
Fluoride	0.42	mg/L	0.10	1		03/11/21 19:05	16984-48-8	
Sulfate	12.6	mg/L	1.0	1		03/11/21 19:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92526576

Sample: UT02	Lab ID: 92526576002	Collected: 03/09/21 14:05	Received: 03/09/21 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.7	mg/L	0.20	1	03/10/21 12:23	03/11/21 23:53	7440-09-7	
Sodium	10.9	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:53	7440-23-5	
Calcium	13.2	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:53	7440-70-2	
Magnesium	2.8	mg/L	0.050	1	03/10/21 12:23	03/11/21 23:53	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 19:10	7440-38-2	
Boron	0.063	mg/L	0.040	1	03/10/21 12:03	03/10/21 19:10	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 19:10	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	89.0	mg/L	10.0	1		03/10/21 09:41		
9040 pH								
Analytical Method: EPA 9040C								
Pace Analytical Services - Peachtree Corners, GA								
pH at 25 Degrees C	7.0	Std. Units	0.10	1		03/15/21 06:59		H3,H6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	34.9	mg/L	5.0	1		03/16/21 05:29		
Alkalinity, Total as CaCO3	34.9	mg/L	5.0	1		03/16/21 05:29		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	10.7	mg/L	1.0	1		03/11/21 19:20	16887-00-6	
Fluoride	0.45	mg/L	0.10	1		03/11/21 19:20	16984-48-8	
Sulfate	14.2	mg/L	1.0	1		03/11/21 19:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92526576

Sample: UT01_DS	Lab ID: 92526576003	Collected: 03/09/21 13:30	Received: 03/09/21 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	03/10/21 12:23	03/11/21 23:58	7440-09-7	
Sodium	10.5	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:58	7440-23-5	
Calcium	12.2	mg/L	1.0	1	03/10/21 12:23	03/11/21 23:58	7440-70-2	
Magnesium	2.8	mg/L	0.050	1	03/10/21 12:23	03/11/21 23:58	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 19:16	7440-38-2	
Boron	0.064	mg/L	0.040	1	03/10/21 12:03	03/10/21 19:16	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 19:16	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	96.0	mg/L	10.0	1		03/10/21 09:41		
9040 pH								
Analytical Method: EPA 9040C								
Pace Analytical Services - Peachtree Corners, GA								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		03/11/21 23:03		H3,H6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	32.2	mg/L	5.0	1		03/16/21 05:48		
Alkalinity, Total as CaCO3	32.2	mg/L	5.0	1		03/16/21 05:48		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	10.4	mg/L	1.0	1		03/11/21 19:35	16887-00-6	
Fluoride	0.49	mg/L	0.10	1		03/11/21 19:35	16984-48-8	
Sulfate	12.9	mg/L	1.0	1		03/11/21 19:35	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526576

Sample: UT03	Lab ID: 92526576004	Collected: 03/09/21 13:38	Received: 03/09/21 16:17	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.7	mg/L	0.20	1	03/10/21 12:23	03/12/21 00:03	7440-09-7	
Sodium	10.8	mg/L	1.0	1	03/10/21 12:23	03/12/21 00:03	7440-23-5	
Calcium	12.7	mg/L	1.0	1	03/10/21 12:23	03/12/21 00:03	7440-70-2	
Magnesium	2.8	mg/L	0.050	1	03/10/21 12:23	03/12/21 00:03	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	03/10/21 12:03	03/10/21 19:21	7440-38-2	
Boron	0.054	mg/L	0.040	1	03/10/21 12:03	03/10/21 19:21	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	03/10/21 12:03	03/10/21 19:21	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	84.0	mg/L	10.0	1	03/10/21 09:42			
9040 pH								
Analytical Method: EPA 9040C								
Pace Analytical Services - Peachtree Corners, GA								
pH at 25 Degrees C	7.3	Std. Units	0.10	1	03/11/21 23:11			H3,H6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	33.3	mg/L	5.0	1	03/16/21 06:24			
Alkalinity, Total as CaCO3	33.3	mg/L	5.0	1	03/16/21 06:24			
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	10.4	mg/L	1.0	1	03/11/21 20:20	16887-00-6		
Fluoride	0.47	mg/L	0.10	1	03/11/21 20:20	16984-48-8		
Sulfate	13.4	mg/L	1.0	1	03/11/21 20:20	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526576

QC Batch: 605550 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526576001, 92526576002, 92526576003, 92526576004

METHOD BLANK: 3190077 Matrix: Water
 Associated Lab Samples: 92526576001, 92526576002, 92526576003, 92526576004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	03/11/21 08:22	
Magnesium	mg/L	ND	0.050	03/11/21 08:22	
Potassium	mg/L	ND	0.20	03/11/21 08:22	
Sodium	mg/L	ND	1.0	03/11/21 08:22	

LABORATORY CONTROL SAMPLE: 3190078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	.92J	92	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	0.85	85	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3190079 3190080

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526568001 Result	Spike Conc.	Spike Conc.	Result							Result
Calcium	mg/L	4.7	1	1	5.6	5.4	84	70	75-125	2	20 M1
Magnesium	mg/L	2.2	1	1	3.2	3.2	101	94	75-125	2	20
Potassium	mg/L	2.6	1	1	3.5	3.5	99	91	75-125	3	20
Sodium	mg/L	6.5	1	1	7.3	7.1	83	63	75-125	3	20 M1

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526576

QC Batch: 605530 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526576001, 92526576002, 92526576003, 92526576004

METHOD BLANK: 3189971 Matrix: Water
 Associated Lab Samples: 92526576001, 92526576002, 92526576003, 92526576004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	03/10/21 17:38	
Boron	mg/L	ND	0.040	03/10/21 17:38	
Molybdenum	mg/L	ND	0.010	03/10/21 17:38	

LABORATORY CONTROL SAMPLE: 3189972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	100	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189973 3189974

Parameter	Units	92526568001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Boron	mg/L	ND	1	1	1.0	0.99	99	97	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92526576

QC Batch: 605445 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92526576001, 92526576002, 92526576003, 92526576004

METHOD BLANK: 3189630 Matrix: Water
 Associated Lab Samples: 92526576001, 92526576002, 92526576003, 92526576004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	03/10/21 09:39	

LABORATORY CONTROL SAMPLE: 3189631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	90-111	

SAMPLE DUPLICATE: 3189632

Parameter	Units	92526563001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1350	1390	3	10	

SAMPLE DUPLICATE: 3189633

Parameter	Units	92526568008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	46.0	2	10	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526576

QC Batch: 606012

Analysis Method: EPA 9040C

QC Batch Method: EPA 9040C

Analysis Description: 9040 pH

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526576001, 92526576003, 92526576004

SAMPLE DUPLICATE: 3192744

Parameter	Units	92525947001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	0	9	H3,H6

SAMPLE DUPLICATE: 3193332

Parameter	Units	92526541002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	9	H3,H6

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526576

QC Batch: 606506

Analysis Method: EPA 9040C

QC Batch Method: EPA 9040C

Analysis Description: 9040 pH

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526576002

SAMPLE DUPLICATE: 3195363

Parameter	Units	92526574004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	10	H3,H6

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
 Pace Project No.: 92526576

QC Batch: 606758 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526576001, 92526576002

METHOD BLANK: 3196779 Matrix: Water
 Associated Lab Samples: 92526576001, 92526576002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	03/16/21 01:47	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	03/16/21 01:47	

LABORATORY CONTROL SAMPLE: 3196780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196781 3196782

Parameter	Units	92526544001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	68.3	50	50	116	118	96	99	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196783 3196784

Parameter	Units	92526568008 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	17.2	50	50	68.6	68.8	103	103	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526576

QC Batch: 606759

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92526576003, 92526576004

METHOD BLANK: 3196785

Matrix: Water

Associated Lab Samples: 92526576003, 92526576004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	03/16/21 05:38	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	03/16/21 05:38	

LABORATORY CONTROL SAMPLE: 3196786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196787 3196788

Parameter	Units	92526576003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	32.2	50	50	81.7	81.9	99	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196789 3196790

Parameter	Units	92526960010 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	50	50	162	162	99	99	80-120	0	25	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526576

QC Batch: 605460 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: 92526576001, 92526576002, 92526576003, 92526576004

METHOD BLANK: 3189677 Matrix: Water
 Associated Lab Samples: 92526576001, 92526576002, 92526576003, 92526576004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	03/11/21 15:36	
Fluoride	mg/L	ND	0.10	03/11/21 15:36	
Sulfate	mg/L	ND	1.0	03/11/21 15:36	

LABORATORY CONTROL SAMPLE: 3189678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189679 3189680

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526568001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	7.0	7.0	50	50	55.2	55.6	96	97	90-110	1	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.6	2.6	99	100	90-110	1	10	
Sulfate	mg/L	4.3	4.3	50	50	53.1	53.7	98	99	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3189681 3189682

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526576003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	10.4	10.4	50	50	58.0	59.0	95	97	90-110	2	10	
Fluoride	mg/L	0.49	0.49	2.5	2.5	2.9	3.0	98	101	90-110	2	10	
Sulfate	mg/L	12.9	12.9	50	50	61.4	62.4	97	99	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.

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QUALIFIERS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92526576

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

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.: 92526576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526576001	UT01_US	EPA 3010A	605550	EPA 6010D	605629
92526576002	UT02	EPA 3010A	605550	EPA 6010D	605629
92526576003	UT01_DS	EPA 3010A	605550	EPA 6010D	605629
92526576004	UT03	EPA 3010A	605550	EPA 6010D	605629
92526576001	UT01_US	EPA 3005A	605530	EPA 6020B	605631
92526576002	UT02	EPA 3005A	605530	EPA 6020B	605631
92526576003	UT01_DS	EPA 3005A	605530	EPA 6020B	605631
92526576004	UT03	EPA 3005A	605530	EPA 6020B	605631
92526576001	UT01_US	SM 2450C-2011	605445		
92526576002	UT02	SM 2450C-2011	605445		
92526576003	UT01_DS	SM 2450C-2011	605445		
92526576004	UT03	SM 2450C-2011	605445		
92526576001	UT01_US	EPA 9040C	606012		
92526576002	UT02	EPA 9040C	606506		
92526576003	UT01_DS	EPA 9040C	606012		
92526576004	UT03	EPA 9040C	606012		
92526576001	UT01_US	SM 2320B-2011	606758		
92526576002	UT02	SM 2320B-2011	606758		
92526576003	UT01_DS	SM 2320B-2011	606759		
92526576004	UT03	SM 2320B-2011	606759		
92526576001	UT01_US	EPA 300.0 Rev 2.1 1993	605460		
92526576002	UT02	EPA 300.0 Rev 2.1 1993	605460		
92526576003	UT01_DS	EPA 300.0 Rev 2.1 1993	605460		
92526576004	UT03	EPA 300.0 Rev 2.1 1993	605460		

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[Signature]

CHAIN OF CUSTODY / Analytical Request Description
 For Sample ID: 92526576

Sample ID: **92526576**
 Analytical Request Description: **GC/MS**
 Method: **GC/MS**
 Date: **11/15/19**

Collector: **John Doe** Date: **11/15/19**
 Analyst: **Jane Smith** Date: **11/15/19**
 Location: **1234 Main St**
 Date: **11/15/19** Time: **10:00 AM**
 Case No: **123456789** Date: **11/15/19**
 Requested By: **John Doe** Date: **11/15/19**

Item #	Description	Quantity	Unit	Container		Material	Analysis Test	Analysis Date	Analysis Location	Analysis Result	Remarks
				Start	End						
1	Sample ID: 92526576	1	g	1234	5678	GC/MS	GC/MS	11/15/19	Lab A	GC/MS	Sample ID: 92526576
2	GC/MS	1	g	1234	5678	GC/MS	GC/MS	11/15/19	Lab A	GC/MS	
3	GC/MS	1	g	1234	5678	GC/MS	GC/MS	11/15/19	Lab A	GC/MS	
4	GC/MS	1	g	1234	5678	GC/MS	GC/MS	11/15/19	Lab A	GC/MS	
5	GC/MS	1	g	1234	5678	GC/MS	GC/MS	11/15/19	Lab A	GC/MS	
6	GC/MS	1	g	1234	5678	GC/MS	GC/MS	11/15/19	Lab A	GC/MS	
7	GC/MS	1	g	1234	5678	GC/MS	GC/MS	11/15/19	Lab A	GC/MS	
8	GC/MS	1	g	1234	5678	GC/MS	GC/MS	11/15/19	Lab A	GC/MS	
9	GC/MS	1	g	1234	5678	GC/MS	GC/MS	11/15/19	Lab A	GC/MS	
10	GC/MS	1	g	1234	5678	GC/MS	GC/MS	11/15/19	Lab A	GC/MS	

W0#: 92526576



Collector: **John Doe** Date: **11/15/19**
 Analyst: **Jane Smith** Date: **11/15/19**
 Location: **1234 Main St**
 Date: **11/15/19** Time: **10:00 AM**
 Case No: **123456789** Date: **11/15/19**
 Requested By: **John Doe** Date: **11/15/19**

Page 19 of 20



Corporate Office
 3400 Corporate Blvd
 Raleigh, NC 27607
 919-877-0000

Document Number: Q1000001
 Page 1 of 2
 Issued/Revised by:
 Pace Analytical Customer Office

Laboratory receiving samples:

Ashville Eden Gracewood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Product Name:
 Sample ID:

Event Name: Analysis - Allergen
 Location: Ashville Eden Gracewood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Project: **WON: 92526576**
 PR: SP Due Date: 09/12/23
 CLIENT: GRACEWOOD

Customer Ref: 1000001 1000002 1000003 1000004

Customer's Internal Name: 1000001

Packing Method: As per label As per label As per label As per label

Biological Transfer Method:
 Yes No

Transfer Method: 1000001 1000002 1000003 1000004

Cooking Temp: 139 139 139 139

Food should be above freezing (40°C)
 Sample not at or above freezing (sample cooled) Sample not at or above freezing (sample cooled)

Cooking Temperature (°F) 139

USDA Requested Seal? Yes No

Do samples originate from a foreign country? Yes No

Item	Q1	Q2	Q3	Q4
1. Allergen Analysis (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Allergen Analysis (Total) (Total)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Customer's Internal Name: 1000001 1000002 1000003 1000004

Customer's Internal Name: 1000001 1000002 1000003 1000004

Customer's Internal Name: 1000001 1000002 1000003 1000004

Person contacted: _____ District: _____

Project Manager: 1000001 Date: _____
 Project Manager: 1000002 Date: _____



March 16, 2021

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

RE: Project: MCDONOUGH AP-234 SURFACE WATER
Pace Project No.: 92524853

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCDONOUGH AP-234 SURFACE WATER
Pace Project No.: 92524853

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: MCDONOUGH AP-234 SURFACE WATER

Pace Project No.: 92524853

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92524853001	SW-1	Water	03/01/21 12:10	03/02/21 08:45
92524853002	SW-2	Water	03/01/21 12:50	03/02/21 08:45
92524853003	SW-3	Water	03/01/21 13:10	03/02/21 08:45
92524853004	SW-4	Water	03/01/21 13:35	03/02/21 08:45
92524853005	DUP-SW	Water	03/01/21 00:00	03/02/21 08:45
92524853006	EB-SW	Water	03/01/21 14:10	03/02/21 08:45
92524853007	FB-SW	Water	03/01/21 14:10	03/02/21 08:45

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SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-234 SURFACE WATER
 Pace Project No.: 92524853

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92524853001	SW-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524853002	SW-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524853003	SW-3	EPA 6010D	DRB	1
		EPA 6020B	CW1	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524853004	SW-4	EPA 6010D	DRB	1
		EPA 6020B	CW1	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524853005	DUP-SW	EPA 6010D	DRB	1
		EPA 6020B	CW1	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524853006	EB-SW	EPA 6010D	DRB	1
		EPA 6020B	CW1	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92524853007	FB-SW	EPA 6010D	DRB	1
		EPA 6020B	CW1	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3

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

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234 SURFACE WATER
 Pace Project No.: 92524853

Sample: SW-1		Lab ID: 92524853001		Collected: 03/01/21 12:10	Received: 03/02/21 08:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 11:30		
pH	6.79	Std. Units			1		03/02/21 11:30		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	23.3	mg/L	1.0	0.070	1	03/03/21 10:17	03/03/21 17:54	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	0.13	mg/L	0.040	0.0052	1	03/03/21 10:24	03/03/21 17:57	7440-42-8	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	121	mg/L	10.0	10.0	1		03/02/21 17:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		03/06/21 16:31	16887-00-6	
Fluoride	0.078J	mg/L	0.10	0.050	1		03/06/21 16:31	16984-48-8	
Sulfate	28.1	mg/L	1.0	0.50	1		03/06/21 16:31	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234 SURFACE WATER

Pace Project No.: 92524853

Sample: SW-2		Lab ID: 92524853002		Collected: 03/01/21 12:50		Received: 03/02/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 11:31		
pH	7.36	Std. Units			1		03/02/21 11:31		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	30.8	mg/L	1.0	0.070	1	03/03/21 10:17	03/03/21 18:13	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	0.11	mg/L	0.040	0.0052	1	03/03/21 10:24	03/03/21 18:03	7440-42-8	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	153	mg/L	10.0	10.0	1		03/04/21 10:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.3	mg/L	1.0	0.60	1		03/06/21 16:45	16887-00-6	
Fluoride	0.26	mg/L	0.10	0.050	1		03/06/21 16:45	16984-48-8	
Sulfate	42.4	mg/L	1.0	0.50	1		03/06/21 16:45	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234 SURFACE WATER
 Pace Project No.: 92524853

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SW-3									
Lab ID: 92524853003									
Collected: 03/01/21 13:10 Received: 03/02/21 08:45 Matrix: Water									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 11:30		
pH	7.50	Std. Units			1		03/02/21 11:30		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	32.0	mg/L	1.0	0.070	1	03/03/21 10:17	03/03/21 18:28	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	0.24	mg/L	0.040	0.0052	1	03/03/21 10:24	03/03/21 18:09	7440-42-8	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	124	mg/L	10.0	10.0	1		03/04/21 10:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	8.2	mg/L	1.0	0.60	1		03/06/21 17:29	16887-00-6	
Fluoride	0.29	mg/L	0.10	0.050	1		03/06/21 17:29	16984-48-8	
Sulfate	47.3	mg/L	1.0	0.50	1		03/06/21 17:29	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234 SURFACE WATER
 Pace Project No.: 92524853

Sample: SW-4		Lab ID: 92524853004		Collected: 03/01/21 13:35	Received: 03/02/21 08:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/02/21 11:31		
pH	7.40	Std. Units			1		03/02/21 11:31		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	31.1	mg/L	1.0	0.070	1	03/03/21 10:17	03/03/21 18:32	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	0.33	mg/L	0.040	0.0052	1	03/03/21 10:24	03/03/21 18:14	7440-42-8	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	176	mg/L	10.0	10.0	1		03/04/21 10:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.8	mg/L	1.0	0.60	1		03/06/21 17:43	16887-00-6	
Fluoride	0.15	mg/L	0.10	0.050	1		03/06/21 17:43	16984-48-8	
Sulfate	46.1	mg/L	1.0	0.50	1		03/06/21 17:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234 SURFACE WATER

Pace Project No.: 92524853

Sample: DUP-SW		Lab ID: 92524853005		Collected: 03/01/21 00:00	Received: 03/02/21 08:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	29.9	mg/L	1.0	0.070	1	03/03/21 10:17	03/03/21 18:42	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	0.34	mg/L	0.040	0.0052	1	03/03/21 10:24	03/03/21 18:26	7440-42-8	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	148	mg/L	10.0	10.0	1		03/04/21 10:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.8	mg/L	1.0	0.60	1		03/06/21 17:58	16887-00-6	
Fluoride	0.15	mg/L	0.10	0.050	1		03/06/21 17:58	16984-48-8	
Sulfate	47.3	mg/L	1.0	0.50	1		03/06/21 17:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234 SURFACE WATER

Pace Project No.: 92524853

Sample: EB-SW		Lab ID: 92524853006		Collected: 03/01/21 14:10	Received: 03/02/21 08:45	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	03/03/21 10:17	03/03/21 18:47	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	ND	mg/L	0.040	0.0052	1	03/03/21 10:24	03/03/21 18:32	7440-42-8	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/04/21 10:19		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/06/21 18:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 18:41	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/06/21 18:41	14808-79-8	

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ANALYTICAL RESULTS

Project: MCDONOUGH AP-234 SURFACE WATER

Pace Project No.: 92524853

Sample: FB-SW		Lab ID: 92524853007		Collected: 03/01/21 14:10		Received: 03/02/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	03/03/21 10:17	03/03/21 18:52	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	ND	mg/L	0.040	0.0052	1	03/03/21 10:24	03/03/21 18:37	7440-42-8	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/04/21 10:19		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/06/21 18:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 18:56	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/06/21 18:56	14808-79-8	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 SURFACE WATER
 Pace Project No.: 92524853

QC Batch: 603832 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524853001, 92524853002, 92524853003, 92524853004, 92524853005, 92524853006, 92524853007

METHOD BLANK: 3180960 Matrix: Water
 Associated Lab Samples: 92524853001, 92524853002, 92524853003, 92524853004, 92524853005, 92524853006, 92524853007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/03/21 17:08	

LABORATORY CONTROL SAMPLE: 3180961

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: 3180962 3180963

Parameter	Units	92524853001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	23.3	1	1	25.2	25.9	190	266	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 SURFACE WATER

Pace Project No.: 92524853

QC Batch:	603841	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92524853001, 92524853002, 92524853003, 92524853004, 92524853005, 92524853006, 92524853007		

METHOD BLANK: 3181014 Matrix: Water
 Associated Lab Samples: 92524853001, 92524853002, 92524853003, 92524853004, 92524853005, 92524853006, 92524853007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0052	03/03/21 16:48	

LABORATORY CONTROL SAMPLE: 3181015

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: 3181016 3181017

Parameter	Units	3181016		3181017		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	mg/L	92524830001 ND	1	1	0.96	0.96	96	96	75-125	0	20

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 SURFACE WATER
 Pace Project No.: 92524853

QC Batch: 603554 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524853001

METHOD BLANK: 3179650 Matrix: Water
 Associated Lab Samples: 92524853001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/02/21 15:40	

LABORATORY CONTROL SAMPLE: 3179651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	393	98	90-111	

SAMPLE DUPLICATE: 3179652

Parameter	Units	92524632011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	194	196	1	10	

SAMPLE DUPLICATE: 3179653

Parameter	Units	92524632016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	128	129	1	10	

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 SURFACE WATER
 Pace Project No.: 92524853

QC Batch: 604206 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92524853002, 92524853003, 92524853004, 92524853005, 92524853006, 92524853007

METHOD BLANK: 3183000 Matrix: Water
 Associated Lab Samples: 92524853002, 92524853003, 92524853004, 92524853005, 92524853006, 92524853007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/04/21 10:17	

LABORATORY CONTROL SAMPLE: 3183001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3183002

Parameter	Units	92525485001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	84.0	85.0	1	10	

SAMPLE DUPLICATE: 3183003

Parameter	Units	92525335006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	23.0	41.0	56	10	D6

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QUALITY CONTROL DATA

Project: MCDONOUGH AP-234 SURFACE WATER

Pace Project No.: 92524853

QC Batch:	604543	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: 92524853001, 92524853002, 92524853003, 92524853004, 92524853005, 92524853006, 92524853007

METHOD BLANK: 3184704 Matrix: Water
 Associated Lab Samples: 92524853001, 92524853002, 92524853003, 92524853004, 92524853005, 92524853006, 92524853007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/06/21 12:54	
Fluoride	mg/L	ND	0.10	0.050	03/06/21 12:54	
Sulfate	mg/L	ND	1.0	0.50	03/06/21 12:54	

LABORATORY CONTROL SAMPLE: 3184705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184706 3184707

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92523440025	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.6	50	50	50.5	51.7	96	98	90-110	2	10		
Fluoride	mg/L	0.13	2.5	2.5	2.6	2.7	100	102	90-110	2	10		
Sulfate	mg/L	ND	50	50	48.5	49.7	96	99	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184708 3184709

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524853002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	8.3	50	50	57.2	57.0	98	97	90-110	0	10		
Fluoride	mg/L	0.26	2.5	2.5	2.8	2.8	101	101	90-110	0	10		
Sulfate	mg/L	42.4	50	50	91.1	90.9	97	97	90-110	0	10		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCDONOUGH AP-234 SURFACE WATER

Pace Project No.: 92524853

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

REPORT OF LABORATORY ANALYSIS

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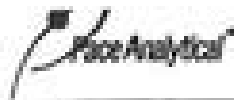
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-234 SURFACE WATER
 Pace Project No.: 92524853

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92524853001	SW-1				
92524853002	SW-2				
92524853003	SW-3				
92524853004	SW-4				
92524853001	SW-1	EPA 3010A	603832	EPA 6010D	603942
92524853002	SW-2	EPA 3010A	603832	EPA 6010D	603942
92524853003	SW-3	EPA 3010A	603832	EPA 6010D	603942
92524853004	SW-4	EPA 3010A	603832	EPA 6010D	603942
92524853005	DUP-SW	EPA 3010A	603832	EPA 6010D	603942
92524853006	EB-SW	EPA 3010A	603832	EPA 6010D	603942
92524853007	FB-SW	EPA 3010A	603832	EPA 6010D	603942
92524853001	SW-1	EPA 3005A	603841	EPA 6020B	603947
92524853002	SW-2	EPA 3005A	603841	EPA 6020B	603947
92524853003	SW-3	EPA 3005A	603841	EPA 6020B	603947
92524853004	SW-4	EPA 3005A	603841	EPA 6020B	603947
92524853005	DUP-SW	EPA 3005A	603841	EPA 6020B	603947
92524853006	EB-SW	EPA 3005A	603841	EPA 6020B	603947
92524853007	FB-SW	EPA 3005A	603841	EPA 6020B	603947
92524853001	SW-1	SM 2450C-2011	603554		
92524853002	SW-2	SM 2450C-2011	604206		
92524853003	SW-3	SM 2450C-2011	604206		
92524853004	SW-4	SM 2450C-2011	604206		
92524853005	DUP-SW	SM 2450C-2011	604206		
92524853006	EB-SW	SM 2450C-2011	604206		
92524853007	FB-SW	SM 2450C-2011	604206		
92524853001	SW-1	EPA 300.0 Rev 2.1 1993	604543		
92524853002	SW-2	EPA 300.0 Rev 2.1 1993	604543		
92524853003	SW-3	EPA 300.0 Rev 2.1 1993	604543		
92524853004	SW-4	EPA 300.0 Rev 2.1 1993	604543		
92524853005	DUP-SW	EPA 300.0 Rev 2.1 1993	604543		
92524853006	EB-SW	EPA 300.0 Rev 2.1 1993	604543		
92524853007	FB-SW	EPA 300.0 Rev 2.1 1993	604543		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA power - spot combustion Resident Project #:

WO#: 92524853



Country: Commercial Fed Ex UPS USPS Client Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initial Person Examining Contents: Jan 3/2/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 213 Type of Ice: Dry Blue None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) ±0.4

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

Cooler Temp Corrected (°C): 1.5

USDA Regulated Soil (N/A, water sample)

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

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-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 checked="" 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.
-Includes Date/Time/ID/Analysis Matrix:	<u>W-T</u>		
Headspace in YOA 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 SOUR Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CJ-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, GRU/8015 (water) DOC, LHM

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

Project #

W0# : 92524853

PR: KLH1

Due Date: 03/16/21

CLIENT: GR-GR Power

Item #	Item Description	1	2	3	4	5	6	7	8	9	10	11	12
BP03-125 ml Plastic Unpreserved (N/A) (2-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP03-200 ml Plastic Unpreserved (N/A)		LA	/	/	/	/	/	/	/	/	/	/	/
BP03-600 ml Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml Plastic HDPE (pH < 2) (2-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP60-200 ml plastic HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml Plastic 2% Acetic & HAcOH (pH)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml Plastic HDPE (pH > 12) (2-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP90-White-mounted Glass Jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber Unpreserved (N/A) (2-1)		/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber HD (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG20-200 ml Amber Unpreserved (N/A) (2-1)		/	/	/	/	/	/	/	/	/	/	/	/
AG15-1 liter Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG10-200 ml Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG10(6034)-200 ml Amber HDPE (N/A)(2-1)		/	/	/	/	/	/	/	/	/	/	/	/
DO20-40 ml VOA HD (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO20-40 ml VOA HD(200) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO20-40 ml VOA HD (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DO20-40 ml VOA HDPE (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO40 (8 vials per 80-5015 lot) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO40 (8 vials per 80-5015/500 lot) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP03-125 ml Sample Plastic (N/A - 100)		/	/	/	/	/	/	/	/	/	/	/	/
BP03-200 ml Sample Plastic (N/A - 100)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-200 ml Plastic (N/A)(2004 (9.3-9.7)		/	/	/	/	/	/	/	/	/	/	/	/
AG10-200 ml Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO20-40 ml Contribution 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 container).

Boonville

CHAIN-OF-CUSTODY / Analytical Request Document
 The Original Copy is a UFGAL 000004501. All other bills must be copied exactly.

Page 1 of 1

Section 1 Requester Information Requester Name: <i>Boonville Police</i> Requester Title: <i>Police Chief</i> Requester Address: <i>100 N. 1st St.</i> Requester City: <i>Boonville, MO</i> Requester State: <i>MO</i> Requester Zip: <i>64601</i> Requester Phone: <i>816-338-1341</i>		Section 2 Requested Analyte Information Analyte Name: <i>COCAINE</i> Analyte Description: <i>White powder, 100 mg</i> Analyte Quantity: <i>100 mg</i> Analyte Packaging: <i>100 mg</i> Analyte Container: <i>100 mg</i> Analyte Label: <i>100 mg</i> Analyte Lot: <i>100 mg</i> Analyte Expiration: <i>100 mg</i>		Section 3 Requesting Agency Information Agency Name: <i>Boonville Police</i> Agency Address: <i>100 N. 1st St.</i> Agency City: <i>Boonville, MO</i> Agency State: <i>MO</i> Agency Zip: <i>64601</i> Agency Phone: <i>816-338-1341</i> Agency Fax: <i>816-338-1341</i>	
---	--	---	--	--	--

ITEM	SAMPLE ID	ANALYZE DATE	ANALYZE TIME	ANALYZE LOCATION	ANALYZE METHOD	ANALYZE RESULT	ANALYZE COMMENTS	ANALYZE STATUS		ANALYZE SIGNATURE	ANALYZE DATE	ANALYZE TIME	ANALYZE LOCATION	ANALYZE METHOD	ANALYZE RESULT	ANALYZE COMMENTS
								ANALYZE STATUS	ANALYZE STATUS							
1	1001	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
2	1002	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
3	1003	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
4	1004	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
5	1005	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
6	1006	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
7	1007	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
8	1008	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
9	1009	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
10	1010	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
11	1011	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
12	1012	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
13	1013	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
14	1014	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
15	1015	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
16	1016	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
17	1017	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg
18	1018	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg	✓	✓	<i>[Signature]</i>	07/11/2011	12:00	Boonville Police	COCAINE	100 mg	White powder, 100 mg

LAB REPORT

LAB REPORT

ANALYZE DATE: 07/11/2011
 ANALYZE TIME: 12:00
 ANALYZE LOCATION: Boonville Police
 ANALYZE METHOD: COCAINE
 ANALYZE RESULT: 100 mg
 ANALYZE COMMENTS: White powder, 100 mg

LAB REPORT

APPENDIX A

Soil/Rock Chemical Analysis



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

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

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

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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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
92532118001	B-104D 56.5-57'					
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	
92532118002	B-109D 92.5-93'					
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	
92532118003	B-111D 82-82.5'					
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
92532118003	B-111D 82-82.5'					
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	
92532118004	B-115D 70.9-71.4'					
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	
92532118005	B-116D 88-88.25'					
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
92532118005	B-116D 88-88.25'					
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	
92532118006	B-117D 67-67.5'					
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	
92532118007	B-119D 101-101.4'					
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
92532118007	B-119D 101-101.4'					
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	2.092 ± 0.499 (0.307) C:NA T:NA	pCi/g	05/06/21 15:24	13982-63-3	Ra
Radium-228	EPA 901.1	1.929 ± 0.628 (0.658) C:NA T:NA	pCi/g	05/06/21 15:24	15262-20-1	
Thorium-232	EPA 901.1	30.535 ± 97.930 (121.200) C:NA T:NA	pCi/g	05/06/21 15:24	7440-29-1	
Thorium-234	EPA 901.1	2.382 ± 5.443 (6.737) C:NA T:NA	pCi/g	05/06/21 15:24	15065-10-8	
Uranium-235	EPA 901.1	0.000 ± 0.963 (2.546) C:NA T:NA	pCi/g	05/06/21 15:24	15117-96-1	
Uranium-238	EPA 901.1	14.981 ± 18.556 (17.580) C:NA T:NA	pCi/g	05/06/21 15:24		

REPORT OF LABORATORY ANALYSIS

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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	1.062 ± 0.248 (0.149) C:NA T:NA	pCi/g	05/06/21 15:25	13982-63-3	Ra
Radium-228	EPA 901.1	1.612 ± 0.328 (0.257) C:NA T:NA	pCi/g	05/06/21 15:25	15262-20-1	
Thorium-232	EPA 901.1	0.000 ± 15.879 (35.880) C:NA T:NA	pCi/g	05/06/21 15:25	7440-29-1	
Thorium-234	EPA 901.1	1.868 ± 1.351 (1.678) C:NA T:NA	pCi/g	05/06/21 15:25	15065-10-8	
Uranium-235	EPA 901.1	0.000 ± 0.816 (1.401) C:NA T:NA	pCi/g	05/06/21 15:25	15117-96-1	
Uranium-238	EPA 901.1	5.079 ± 12.720 (14.300) C:NA T:NA	pCi/g	05/06/21 15:25		

REPORT OF LABORATORY ANALYSIS

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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	1.296 ± 0.310 (0.241) C:NA T:NA	pCi/g	05/06/21 15:56	13982-63-3	Ra
Radium-228	EPA 901.1	1.440 ± 0.518 (0.681) C:NA T:NA	pCi/g	05/06/21 15:56	15262-20-1	
Thorium-232	EPA 901.1	40.530 ± 63.887 (77.770) C:NA T:NA	pCi/g	05/06/21 15:56	7440-29-1	
Thorium-234	EPA 901.1	1.785 ± 3.710 (4.578) C:NA T:NA	pCi/g	05/06/21 15:56	15065-10-8	
Uranium-235	EPA 901.1	0.568 ± 1.526 (1.740) C:NA T:NA	pCi/g	05/06/21 15:56	15117-96-1	
Uranium-238	EPA 901.1	0.000 ± 5.574 (19.140) 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	1.518 ± 0.291 (0.260) C:NA T:NA	pCi/g	05/06/21 15:58	13982-63-3	Ra
Radium-228	EPA 901.1	2.297 ± 0.463 (0.292) C:NA T:NA	pCi/g	05/06/21 15:58	15262-20-1	
Thorium-232	EPA 901.1	25.865 ± 22.768 (36.310) C:NA T:NA	pCi/g	05/06/21 15:58	7440-29-1	
Thorium-234	EPA 901.1	0.831 ± 1.366 (2.265) C:NA T:NA	pCi/g	05/06/21 15:58	15065-10-8	
Uranium-235	EPA 901.1	0.161 ± 1.217 (1.528) C:NA T:NA	pCi/g	05/06/21 15:58	15117-96-1	
Uranium-238	EPA 901.1	0.922 ± 17.282 (19.570) 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	1.344 ± 0.346 (0.220) C:NA T:NA	pCi/g	05/06/21 16:34	13982-63-3	Ra
Radium-228	EPA 901.1	1.777 ± 0.536 (0.474) C:NA T:NA	pCi/g	05/06/21 16:34	15262-20-1	
Thorium-232	EPA 901.1	0.000 ± 33.838 (77.080) C:NA T:NA	pCi/g	05/06/21 16:34	7440-29-1	
Thorium-234	EPA 901.1	0.000 ± 1.927 (4.422) C:NA T:NA	pCi/g	05/06/21 16:34	15065-10-8	
Uranium-235	EPA 901.1	0.032 ± 1.441 (1.662) C:NA T:NA	pCi/g	05/06/21 16:34	15117-96-1	
Uranium-238	EPA 901.1	6.984 ± 15.413 (14.130) 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	1.297 ± 0.322 (0.173) C:NA T:NA	pCi/g	05/06/21 17:06	13982-63-3	Ra
Radium-228	EPA 901.1	1.431 ± 0.433 (0.200) C:NA T:NA	pCi/g	05/06/21 17:06	15262-20-1	
Thorium-232	EPA 901.1	0.000 ± 41.225 (100.100) C:NA T:NA	pCi/g	05/06/21 17:06	7440-29-1	
Thorium-234	EPA 901.1	0.000 ± 2.347 (5.994) C:NA T:NA	pCi/g	05/06/21 17:06	15065-10-8	
Uranium-235	EPA 901.1	0.845 ± 1.424 (1.634) C:NA T:NA	pCi/g	05/06/21 17:06	15117-96-1	
Uranium-238	EPA 901.1	0.295 ± 19.653 (18.960) C:NA T:NA	pCi/g	05/06/21 17:06		

REPORT OF LABORATORY ANALYSIS

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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	1.892 ± 0.320 (0.204) C:NA T:NA	pCi/g	05/06/21 16:35	13982-63-3	Ra
Radium-228	EPA 901.1	1.928 ± 0.421 (0.206) C:NA T:NA	pCi/g	05/06/21 16:35	15262-20-1	
Thorium-232	EPA 901.1	18.394 ± 35.121 (44.700) C:NA T:NA	pCi/g	05/06/21 16:35	7440-29-1	
Thorium-234	EPA 901.1	0.000 ± 1.622 (2.771) C:NA T:NA	pCi/g	05/06/21 16:35	15065-10-8	
Uranium-235	EPA 901.1	0.000 ± 0.575 (1.461) C:NA T:NA	pCi/g	05/06/21 16:35	15117-96-1	
Uranium-238	EPA 901.1	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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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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

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

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: *4/8/18*

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 COC?	<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: _____



Document Title:
 Sample Condition Upon Receipt (SCUR)
 Revision No:
 P-CAR-C3-033-Rev.07

Document Revised: October 23, 2013
 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.

Project #

WO#: 92532118

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/2015 Lead, VOC, UFA

PR: KLHI Due Date: 04/29/21
 CLIENT: CR-CR Power

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

Brand	Method	1	2	3	4	5	6	7	8	9	10	11	12
APHA 175 ml Plastic	Unpreserved (M) (IC-1)												
APHA 250 ml Plastic	Unpreserved (M) (M)												
APHA 475 ml Plastic	Unpreserved (M) (M)												
APHA 8 liter Plastic	Unpreserved (M) (M)												
APHA 125 ml Plastic	APHA 1250A (pt = 1) (B-1)												
APHA 190 ml plastic	19001 (pt = 1)												
APHA 250 ml Plastic	250, Autoclave & NaOH (V)												
APHA 125 ml Plastic	NaOH (M) (M)												
WQAH	Multi-residual Gas for Unpreserved												
APHA 8 liter Autoclave	Unpreserved (M) (M)												
APHA 1 liter Autoclave	1 liter (M) (M)												
APHA 250 ml Autoclave	Unpreserved (M) (M)												
APHA 250 ml Autoclave	1250A (pt = 1)												
APHA 250 ml Autoclave	1900A (pt = 1)												
APHA 250 ml Autoclave	1900B (M) (M)												
DO	1000 ml VOA (M)												
VOA	1000 ml VOA (M) (M)												
VOA	1000 ml VOA (M)												
VOA	1000 ml VOA (M)												
VOA	1000 ml VOA (M)												
VOA	1000 ml VOA (M)												
VOA	1000 ml VOA (M)												
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VOA	1000 ml VOA (M)												
VOA	1000 ml VOA (M)												
VOA	1000 ml VOA (M)												
VOA	1000 ml VOA (M)												
VOA	1000 ml VOA (M)												

Mason 201

BG-3U

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Final 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. Out of box, incorrect preservative, etc. all being incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-Of-Custody is a legal document. All relevant fields must be completed accurately.

Page 1 of 1

Section A Requesting Agency Information	Section B Requesting Agency Information	Section C Agency Information
Requesting Agency: Georgia Dept. of Transportation Case No: 10000000000000000000 Request Date: 01/01/2018	Requesting Agency: Georgia Dept. of Transportation Case No: 10000000000000000000 Request Date: 01/01/2018	Agency Name: Georgia Dept. of Transportation Case No: 10000000000000000000 Request Date: 01/01/2018
Requesting Agency: Georgia Dept. of Transportation Case No: 10000000000000000000 Request Date: 01/01/2018	Requesting Agency: Georgia Dept. of Transportation Case No: 10000000000000000000 Request Date: 01/01/2018	Agency Name: Georgia Dept. of Transportation Case No: 10000000000000000000 Request Date: 01/01/2018

ITEM #	DESCRIPTION	DATE	TIME	LOCATION	ANALYST	AGENCY	DATE	TIME	LOCATION	ANALYST	AGENCY
1	Sample 1	01/01/2018	08:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	08:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
2	Sample 2	01/01/2018	09:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	09:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
3	Sample 3	01/01/2018	10:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	10:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
4	Sample 4	01/01/2018	11:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	11:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
5	Sample 5	01/01/2018	12:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	12:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
6	Sample 6	01/01/2018	13:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	13:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
7	Sample 7	01/01/2018	14:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	14:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
8	Sample 8	01/01/2018	15:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	15:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
9	Sample 9	01/01/2018	16:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	16:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
10	Sample 10	01/01/2018	17:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	17:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
11	Sample 11	01/01/2018	18:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	18:00	Atlanta, GA	J. Smith	GA Dept. of Transportation
12	Sample 12	01/01/2018	19:00	Atlanta, GA	J. Smith	GA Dept. of Transportation	01/01/2018	19:00	Atlanta, GA	J. Smith	GA Dept. of Transportation

APPROVAL SIGNATURE _____ DATE: _____	APPROVAL SIGNATURE _____ DATE: _____	APPROVAL SIGNATURE _____ DATE: _____	APPROVAL SIGNATURE _____ DATE: _____	APPROVAL SIGNATURE _____ DATE: _____	APPROVAL SIGNATURE _____ DATE: _____
--	--	--	--	--	--

Requesting Agency: **GA**

Gamma Spec Quality Control Sample Performance Assessment

Handwritten notes:
 1. 100%
 2. 100%
 3. 100%
 4. 100%
 5. 100%
 6. 100%
 7. 100%
 8. 100%
 9. 100%
 10. 100%

Sample ID	Sample Description	Sample Type	Sample Location	Sample Date	Sample Time	Sample Operator	Sample Results	Sample Status
1001	Gamma Spec	Control	Lab E	5/14/14	10:00	JLH	100%	Pass
1002	Gamma Spec	Control	Lab E	5/14/14	10:05	JLH	100%	Pass
1003	Gamma Spec	Control	Lab E	5/14/14	10:10	JLH	100%	Pass
1004	Gamma Spec	Control	Lab E	5/14/14	10:15	JLH	100%	Pass
1005	Gamma Spec	Control	Lab E	5/14/14	10:20	JLH	100%	Pass

Sample ID	Sample Description	Sample Type	Sample Location	Sample Date	Sample Time	Sample Operator	Sample Results	Sample Status
1006	Gamma Spec	Control	Lab E	5/14/14	10:25	JLH	100%	Pass
1007	Gamma Spec	Control	Lab E	5/14/14	10:30	JLH	100%	Pass
1008	Gamma Spec	Control	Lab E	5/14/14	10:35	JLH	100%	Pass
1009	Gamma Spec	Control	Lab E	5/14/14	10:40	JLH	100%	Pass
1010	Gamma Spec	Control	Lab E	5/14/14	10:45	JLH	100%	Pass

Sample ID	Sample Description	Sample Type	Sample Location	Sample Date	Sample Time	Sample Operator	Sample Results	Sample Status
1011	Gamma Spec	Control	Lab E	5/14/14	10:50	JLH	100%	Pass
1012	Gamma Spec	Control	Lab E	5/14/14	10:55	JLH	100%	Pass
1013	Gamma Spec	Control	Lab E	5/14/14	11:00	JLH	100%	Pass
1014	Gamma Spec	Control	Lab E	5/14/14	11:05	JLH	100%	Pass
1015	Gamma Spec	Control	Lab E	5/14/14	11:10	JLH	100%	Pass

Sample ID	Sample Description	Sample Type	Sample Location	Sample Date	Sample Time	Sample Operator	Sample Results	Sample Status
1016	Gamma Spec	Control	Lab E	5/14/14	11:15	JLH	100%	Pass
1017	Gamma Spec	Control	Lab E	5/14/14	11:20	JLH	100%	Pass
1018	Gamma Spec	Control	Lab E	5/14/14	11:25	JLH	100%	Pass
1019	Gamma Spec	Control	Lab E	5/14/14	11:30	JLH	100%	Pass
1020	Gamma Spec	Control	Lab E	5/14/14	11:35	JLH	100%	Pass

Sample ID	Sample Description	Sample Type	Sample Location	Sample Date	Sample Time	Sample Operator	Sample Results	Sample Status
1021	Gamma Spec	Control	Lab E	5/14/14	11:40	JLH	100%	Pass
1022	Gamma Spec	Control	Lab E	5/14/14	11:45	JLH	100%	Pass
1023	Gamma Spec	Control	Lab E	5/14/14	11:50	JLH	100%	Pass
1024	Gamma Spec	Control	Lab E	5/14/14	11:55	JLH	100%	Pass
1025	Gamma Spec	Control	Lab E	5/14/14	12:00	JLH	100%	Pass

1. The sample is a gamma spec control sample. The sample is a gamma spec control sample. The sample is a gamma spec control sample.

Handwritten signature: JLH

APPENDIX A
Field Data Forms
August 2020

Product Name: Low-Flow System

Date: 2020-08-13 13:10:54

Project Information:

Operator Name K. Minkara
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 32 ft

Pump placement from TOC 32 ft

Well Information:

Well ID DGWA-53
Well diameter 2 in
Well Total Depth 36.89 ft
Screen Length 10 ft
Depth to Water 15.04 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.2328295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 77.76 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:48:16	1799.96	23.34	6.15	148.70	4.84	20.79	3.12	169.64
Last 5	12:53:16	2099.96	23.88	6.16	147.57	4.62	21.03	2.95	164.41
Last 5	12:58:16	2399.99	23.79	6.15	149.01	4.25	21.25	2.96	167.90
Last 5	13:03:16	2699.96	24.61	6.16	147.76	4.24	21.39	2.89	166.74
Last 5	13:08:16	2999.93	24.69	6.17	149.94	4.11	21.52	2.84	161.59
Variance 0			-0.09	-0.01	1.44			0.01	3.50
Variance 1			0.81	0.01	-1.25			-0.06	-1.16
Variance 2			0.09	0.01	2.18			-0.05	-5.15

Notes

Purge attempt #3
Sampled at 1307

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-11 11:39:34

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 57.5 ft

Pump placement from TOC 57.5 ft

Well Information:

Well ID DGWA-70A
Well diameter 2 in
Well Total Depth 62.40 ft
Screen Length 10 ft
Depth to Water 39.57 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4716468 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.72 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:17:31	600.02	18.29	6.13	65.78	30.30	39.87	8.01	142.62
Last 5	11:22:31	900.02	18.24	6.01	63.34	13.00	39.87	8.32	141.82
Last 5	11:27:31	1200.02	18.23	5.94	62.25	9.21	39.87	8.35	142.37
Last 5	11:32:31	1500.88	18.32	5.88	61.39	5.18	39.88	8.25	143.28
Last 5	11:37:31	1800.88	18.32	5.86	61.18	3.94	39.88	8.28	143.48
Variance 0			-0.00	-0.07	-1.09			0.03	0.54
Variance 1			0.09	-0.06	-0.86			-0.10	0.91
Variance 2			0.00	-0.02	-0.21			0.02	0.21

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-11 14:55:24

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 42.75 ft

Pump placement from TOC 42.75 ft

Well Information:

Well ID DGWA-71
Well diameter 2 in
Well Total Depth 47.73 ft
Screen Length 10 ft
Depth to Water 28.10 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4058113 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:38:17	300.07	18.77	6.01	80.73	20.50	29.00	1.33	100.96
Last 5	14:43:17	600.02	18.68	5.97	78.88	6.22	29.01	1.04	104.22
Last 5	14:48:17	900.02	18.64	5.97	78.46	2.43	29.01	0.94	107.29
Last 5	14:53:18	1201.02	18.68	5.96	78.45	2.22	29.02	0.87	109.46
Last 5									
Variance 0			-0.08	-0.04	-1.85			-0.29	3.26
Variance 1			-0.04	-0.00	-0.42			-0.11	3.06
Variance 2			0.04	-0.01	-0.02			-0.07	2.17

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-11 13:23:58

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 33° 49' 55.2"
Longitude -84° -28' -44.79"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 47.5 ft

Pump placement from TOC 47.5 ft

Well Information:

Well ID DGWC-2
Well diameter 2 in
Well Total Depth 52.41 ft
Screen Length 10 ft
Depth to Water 30.0 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4270126 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13.44 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:02:14	300.03	19.57	6.02	387.24	5.93	31.13	0.91	106.36
Last 5	13:12:14	900.02	19.57	6.03	385.47	4.88	31.12	0.69	108.54
Last 5	13:17:14	1200.02	19.52	6.04	386.23	3.92	31.12	0.61	108.64
Last 5	13:22:15	1501.02	19.57	6.04	385.34	3.67	31.12	0.56	110.16
Last 5									
Variance 0			0.00	0.01	-1.77			-0.22	2.18
Variance 1			-0.05	0.01	0.76			-0.08	0.10
Variance 2			0.05	0.00	-0.89			-0.04	1.52

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-12 12:23:49

Project Information:

Operator Name J. Waguespack
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 41 ft

Pump placement from TOC 41 ft

Well Information:

Well ID DGWC-4
Well diameter 2 in
Well Total Depth 46.71 ft
Screen Length 10 ft
Depth to Water 23.54 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3980004 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.32 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:26:28	600.02	20.17	6.03	1642.07	0.79	24.15	0.37	149.42
Last 5	11:31:28	900.02	19.94	5.99	1682.56	1.82	24.15	0.22	139.86
Last 5	11:36:28	1200.02	19.97	5.95	1740.97	2.02	24.15	0.18	132.88
Last 5	11:41:28	1499.96	19.95	5.94	1736.77	2.13	24.15	0.17	127.72
Last 5	11:46:30	1801.96	19.94	5.93	1744.00	2.02	24.15	0.16	123.58
Variance 0			0.04	-0.04	58.41			-0.04	-6.98
Variance 1			-0.02	-0.01	-4.20			-0.01	-5.16
Variance 2			-0.01	-0.00	7.23			-0.01	-4.14

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-12 11:07:53

Project Information:

Operator Name J. Waguespack
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 28 ft

Pump placement from TOC 28 ft

Well Information:

Well ID DGWC-5
Well diameter 2 in
Well Total Depth 33.23 ft
Screen Length 10 ft
Depth to Water 9.74 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3399758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.48 in
Total Volume Pumped 13.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:25:06	1502.81	19.77	4.83	883.07	0.75	10.28	0.79	373.49
Last 5	10:30:06	1802.81	19.70	4.84	891.08	0.56	10.28	0.78	400.21
Last 5	10:35:06	2102.81	19.86	4.83	894.11	0.42	10.28	0.76	426.35
Last 5	10:40:06	2402.81	19.84	4.84	899.85	0.40	10.28	0.74	445.03
Last 5	10:45:06	2702.81	19.73	4.84	911.17	0.45	10.28	0.72	380.02
Variance 0			0.16	-0.00	3.03			-0.02	26.14
Variance 1			-0.02	0.00	5.73			-0.01	18.68
Variance 2			-0.11	0.01	11.32			-0.02	-65.02

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-11 17:00:56

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 46.0 ft

Pump placement from TOC 46.0 ft

Well Information:

Well ID DGWC-8
Well diameter 2 in
Well Total Depth 51.33 ft
Screen Length 10 ft
Depth to Water 32.10 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4203174 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10.56 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:29:03	1200.02	20.09	5.51	489.86	1000.00	32.99	6.38	152.28
Last 5	16:34:03	1500.02	19.80	5.49	492.27	710.00	32.98	5.91	158.08
Last 5	16:39:03	1800.02	20.15	5.45	492.95	130.00	32.98	5.36	153.63
Last 5	16:44:03	2100.02	20.64	5.42	494.08	69.00	32.98	5.05	155.08
Last 5	16:49:03	2400.02	20.15	5.36	499.32	139.00	32.98	5.06	156.09
Variance 0			0.35	-0.04	0.68			-0.55	-4.45
Variance 1			0.49	-0.03	1.13			-0.31	1.45
Variance 2			-0.49	-0.05	5.24			0.00	1.01

Notes

Not sampled. High turbidity

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-12 10:15:16

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 46.0 ft

Pump placement from TOC 46.0 ft

Well Information:

Well ID DGWC-8
Well diameter 2 in
Well Total Depth 51.33 ft
Screen Length 10 ft
Depth to Water 32.39 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.4203174 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 5.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:53:11	900.02	20.64	5.44	497.06	29.30	32.40	4.67	147.22
Last 5	09:58:11	1200.02	20.65	5.35	496.64	18.30	32.40	4.51	149.22
Last 5	10:03:11	1500.02	20.51	5.32	495.58	10.30	32.40	4.58	150.46
Last 5	10:08:12	1801.02	20.59	5.30	495.83	6.33	32.40	4.72	151.84
Last 5	10:13:12	2101.02	20.68	5.30	494.90	4.94	32.40	4.97	152.95
Variance 0			-0.14	-0.03	-1.06			0.07	1.24
Variance 1			0.09	-0.02	0.24			0.14	1.37
Variance 2			0.09	0.00	-0.92			0.25	1.11

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-11 16:44:09

Project Information:

Operator Name J. Waguespack
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 28 ft

Pump placement from TOC 28 ft

Well Information:

Well ID DGWC-9
Well diameter 2 in
Well Total Depth 33.70 ft
Screen Length 10 ft
Depth to Water 25.25 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3399758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.8 in
Total Volume Pumped 13.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:45:02	1500.22	20.59	4.01	679.94	2.00	25.93	1.26	128.96
Last 5	15:50:02	1800.22	20.86	4.01	687.91	1.50	25.95	0.67	127.36
Last 5	15:55:02	2100.22	20.84	4.01	685.50	2.76	25.98	0.77	125.75
Last 5	16:00:02	2400.22	20.89	4.00	684.49	2.40	25.98	0.73	124.42
Last 5	16:05:02	2700.22	20.93	4.00	675.81	1.80	25.98	0.84	123.69
Variance 0			-0.02	-0.00	-2.41			0.10	-1.62
Variance 1			0.05	-0.01	-1.01			-0.04	-1.33
Variance 2			0.04	0.01	-8.68			0.11	-0.73

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-11 16:33:34

Project Information:

Operator Name K. Minkara
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 43 ft

Pump placement from TOC 43 ft

Well Information:

Well ID DGWC-10
Well diameter 2 in
Well Total Depth 47.8 ft
Screen Length 10 ft
Depth to Water 32.49 ft

Pumping Information:

Final Pumping Rate 240 mL/min
Total System Volume 0.4069272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.52 in
Total Volume Pumped 9.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:10:46	1200.99	22.40	4.93	526.32	1.26	32.94	3.92	579.71
Last 5	16:15:46	1500.98	22.09	4.93	528.69	1.11	32.94	3.51	585.50
Last 5	16:20:46	1800.97	22.01	4.92	531.32	0.96	32.95	3.30	589.62
Last 5	16:25:46	2100.96	21.82	4.92	533.62	0.88	32.95	3.17	595.72
Last 5	16:30:46	2400.95	21.99	4.92	531.19	1.25	32.95	3.05	599.39
Variance 0			-0.08	-0.00	2.63			-0.21	4.12
Variance 1			-0.19	-0.00	2.30			-0.13	6.11
Variance 2			0.16	-0.00	-2.43			-0.13	3.67

Notes

FD-1 here

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-11 12:15:52

Project Information:

Operator Name K. Minkara
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 47 ft

Pump placement from TOC 47 ft

Well Information:

Well ID DGWC-11
Well diameter 2 in
Well Total Depth 51.72 ft
Screen Length 10 ft
Depth to Water 16.8 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2997809 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.48 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:03:58	300.02	22.16	5.69	585.87	4.93	17.32	0.08	231.94
Last 5	12:08:58	600.01	23.15	5.69	582.17	2.64	17.34	0.11	237.72
Last 5	12:13:58	900.00	23.37	5.68	582.43	2.79	17.34	0.11	250.74
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.99	-0.00	-3.70			0.02	5.78
Variance 2			0.21	-0.01	0.26			0.01	13.02

Notes

Previous purge file ended early. Purge began at 1140 w/ 200mL/min
Sampled at 1215

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-11 14:52:37

Project Information:

Operator Name K. Minkara
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 23 ft

Pump placement from TOC 23 ft

Well Information:

Well ID DGWC-12
Well diameter 2 in
Well Total Depth 28.24 ft
Screen Length 10 ft
Depth to Water 10.29 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1926587 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.48 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:28:39	1799.97	21.92	5.70	703.58	12.20	10.58	0.04	165.60
Last 5	14:33:39	2099.96	22.15	5.69	705.46	9.40	10.58	0.04	174.71
Last 5	14:38:39	2399.96	22.08	5.69	708.42	6.70	10.58	0.05	187.66
Last 5	14:43:39	2699.94	22.18	5.69	699.92	5.14	10.58	0.05	201.93
Last 5	14:48:39	2999.94	21.97	5.69	699.37	3.45	10.58	0.08	219.96
Variance 0			-0.06	0.01	2.96			0.01	12.94
Variance 1			0.10	0.00	-8.50			0.00	14.27
Variance 2			-0.21	-0.01	-0.55			0.02	18.03

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-12 11:41:13

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 41.50 ft

Pump placement from TOC 41.50 ft

Well Information:

Well ID DGWC-13
Well diameter 2 in
Well Total Depth 46.70 ft
Screen Length 10 ft
Depth to Water 33.56 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.400232 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:24:27	300.08	20.19	5.65	450.26	4.97	33.98	3.58	139.40
Last 5	11:29:27	600.02	20.11	5.66	448.57	2.48	34.01	3.58	137.22
Last 5	11:34:27	900.06	20.06	5.67	450.26	5.33	34.01	3.57	136.55
Last 5	11:39:27	1200.07	20.01	5.68	450.24	2.78	34.02	3.58	137.58
Last 5									
Variance 0			-0.09	0.01	-1.70			0.01	-2.18
Variance 1			-0.04	0.01	1.69			-0.01	-0.67
Variance 2			-0.05	0.01	-0.02			0.01	1.03

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-11 11:34:44

Project Information:

Operator Name J. Waguespack
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 33 ft

Pump placement from TOC 33 ft

Well Information:

Well ID DGWC-14
Well diameter 2 in
Well Total Depth 37.97 ft
Screen Length 10 ft
Depth to Water 21.12 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.362293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.4 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C +/- 0.5	pH +/- 0.1	SpCond μ S/cm +/- 5%	Turb NTU +/- 10	DTW ft	RDO mg/L +/- 10%	ORP mV +/- 10
Stabilization									
Last 5	11:12:34	300.14	20.22	6.13	139.07	1.25	21.32	5.30	112.78
Last 5	11:17:33	600.02	19.83	5.86	137.90	1.27	21.32	5.65	106.85
Last 5	11:22:33	900.02	19.77	5.79	137.10	1.06	21.32	5.75	104.70
Last 5	11:27:33	1200.02	19.86	5.76	136.91	0.53	21.32	5.90	102.99
Last 5	11:32:33	1500.02	19.95	5.73	137.09	0.45	21.32	5.99	102.14
Variance 0			-0.05	-0.07	-0.80			0.11	-2.15
Variance 1			0.09	-0.03	-0.20			0.14	-1.71
Variance 2			0.09	-0.03	0.18			0.09	-0.85

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-13 10:40:20

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 65.75 ft

Pump placement from TOC 65.75 ft

Well Information:

Well ID DGWC-15
Well diameter 2 in
Well Total Depth 70.75 ft
Screen Length 10 ft
Depth to Water 39.55 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.5084701 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.6 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:13:28	300.00	27.88	6.64	452.80	18.40	39.60	9.20	92.58
Last 5	10:18:28	599.99	27.87	6.61	452.35	18.30	39.59	9.02	92.80
Last 5	10:23:28	899.95	28.05	6.59	452.93	17.20	39.60	9.01	92.99
Last 5	10:28:28	1199.95	28.13	6.60	453.10	17.20	39.61	8.93	92.86
Last 5	10:38:28	1799.95	28.36	6.58	453.61	4.70	39.60	8.70	93.86
Variance 0			0.18	-0.02	0.58			-0.01	0.20
Variance 1			0.08	0.01	0.17			-0.08	-0.13
Variance 2			0.23	-0.01	0.51			-0.23	1.00

Notes

Samples

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-14 10:16:26

Project Information:

Operator Name K. Minkara
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 43 ft

Pump placement from TOC 43 ft

Well Information:

Well ID DGWC-17
Well diameter 2 in
Well Total Depth 47.95 ft
Screen Length 10 ft
Depth to Water 32.21 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4069272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.68 in
Total Volume Pumped 13.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:55:01	1499.98	20.22	5.02	628.99	7.87	32.60	0.19	258.07
Last 5	10:00:01	1799.97	20.20	5.02	628.53	6.57	32.60	0.13	253.10
Last 5	10:05:01	2099.96	20.17	5.02	628.73	6.19	32.60	0.10	248.80
Last 5	10:10:01	2399.95	20.22	5.02	628.27	5.09	32.60	0.09	245.56
Last 5	10:15:01	2699.94	20.28	5.01	627.57	4.83	32.60	0.08	245.63
Variance 0			-0.03	-0.00	0.20			-0.03	-4.29
Variance 1			0.04	0.00	-0.46			-0.01	-3.25
Variance 2			0.06	-0.01	-0.69			-0.01	0.08

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-11 13:25:15

Project Information:

Operator Name J. Waguespack
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 38 ft

Pump placement from TOC 38 ft

Well Information:

Well ID DGWC-19
Well diameter 2 in
Well Total Depth 43.15 ft
Screen Length 10 ft
Depth to Water 24.42 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3846101 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.6 in
Total Volume Pumped 10.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:40:17	900.02	21.02	4.91	750.83	3.90	24.72	0.35	270.64
Last 5	12:45:17	1200.02	20.97	4.91	749.69	4.45	24.72	0.26	282.17
Last 5	12:50:17	1500.02	20.95	4.91	751.26	4.50	24.72	0.27	297.36
Last 5	12:55:17	1800.02	20.93	4.91	745.68	4.39	24.72	0.23	302.22
Last 5	13:00:20	2103.02	20.96	4.90	751.93	4.35	24.72	0.22	306.53
Variance 0			-0.01	0.00	1.57			0.00	15.19
Variance 1			-0.02	-0.00	-5.59			-0.03	4.86
Variance 2			0.03	-0.00	6.26			-0.02	4.31

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-13 14:16:59

Project Information:

Operator Name J. Waguespack
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 38 ft

Pump placement from TOC 38 ft

Well Information:

Well ID DGWC-20
Well diameter 2 in
Well Total Depth 43.30 ft
Screen Length 10 ft
Depth to Water 24.28 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3846101 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 22.1 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:55:04	1203.02	20.90	4.46	955.13	3.16	26.10	0.16	150.67
Last 5	13:00:06	1505.28	20.98	4.42	956.84	3.20	26.12	0.15	180.41
Last 5	13:05:06	1805.27	21.20	4.41	960.23	3.80	26.12	0.16	209.76
Last 5	13:10:06	2105.28	21.38	4.38	967.48	2.90	26.12	0.15	248.70
Last 5	13:15:06	2405.28	21.38	4.36	966.66	3.60	26.12	0.15	278.11
Variance 0			0.22	-0.02	3.40			0.01	29.35
Variance 1			0.18	-0.02	7.25			-0.01	38.94
Variance 2			-0.00	-0.02	-0.82			0.00	29.42

Notes

Previous attempt 08/12

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-14 10:55:06

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 67.5 ft

Pump placement from TOC 67.5 ft

Well Information:

Well ID DGWC-21
Well diameter 2 in
Well Total Depth 72.62 ft
Screen Length 10 ft
Depth to Water 19.21 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.391281 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.1 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:32:21	600.02	21.27	5.87	686.14	0.85	19.51	0.29	91.16
Last 5	10:37:21	900.02	21.31	5.75	685.81	0.91	19.53	0.21	91.03
Last 5	10:42:21	1200.02	21.35	5.70	686.60	0.64	19.54	0.22	91.59
Last 5	10:47:21	1500.02	21.38	5.68	687.01	0.59	19.55	0.47	92.19
Last 5	10:52:23	1801.15	21.31	5.66	687.98	0.66	19.55	0.32	92.90
Variance 0			0.05	-0.05	0.79			0.00	0.56
Variance 1			0.02	-0.03	0.40			0.26	0.60
Variance 2			-0.06	-0.01	0.97			-0.16	0.71

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-14 12:22:25

Project Information:

Operator Name J. Waguespack
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 58 ft

Pump placement from TOC 58 ft

Well Information:

Well ID DGWC-22
Well diameter 2 in
Well Total Depth 63.45 ft
Screen Length 10 ft
Depth to Water 20.75 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4738785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.2 in
Total Volume Pumped 10.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:33:47	900.02	20.40	5.77	639.23	0.61	21.17	2.96	126.82
Last 5	11:38:47	1200.02	20.54	5.77	636.80	0.59	21.18	2.42	127.65
Last 5	11:43:47	1500.02	20.53	5.77	640.87	0.36	21.18	0.24	128.57
Last 5	11:48:47	1800.02	20.55	5.76	641.78	0.38	21.18	0.26	129.26
Last 5	11:53:48	2100.70	20.53	5.76	640.79	0.22	21.18	0.27	129.73
Variance 0			-0.01	-0.00	4.07			-2.19	0.92
Variance 1			0.02	-0.00	0.90			0.03	0.69
Variance 2			-0.02	-0.00	-0.99			0.00	0.47

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-13 13:13:33

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 58.5 ft

Pump placement from TOC 58.5 ft

Well Information:

Well ID DGWC-23
Well diameter 2 in
Well Total Depth 63.44 ft
Screen Length 10 ft
Depth to Water 20.61 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3511102 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 19 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:46:47	1199.97	23.09	6.05	646.39	2.47	22.01	0.92	109.62
Last 5	12:51:48	1500.96	23.72	6.03	644.32	2.11	22.04	0.62	109.97
Last 5	12:56:48	1800.96	23.46	6.03	643.49	2.70	22.08	0.45	109.88
Last 5	13:01:49	2101.96	23.59	6.03	638.82	2.16	22.11	0.36	109.93
Last 5	13:11:50	2702.90	23.01	6.00	651.46	2.05	22.14	0.29	109.92
Variance 0			-0.26	-0.00	-0.83			-0.17	-0.09
Variance 1			0.13	0.00	-4.66			-0.09	0.05
Variance 2			-0.58	-0.03	12.64			-0.07	-0.01

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-13 15:15:22

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 47.50 ft

Pump placement from TOC 47.50 ft

Well Information:

Well ID DGWC-42
Well diameter 2 in
Well Total Depth 52.50 ft
Screen Length 10 ft
Depth to Water 32.41 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4270126 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 33.12 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:52:47	300.03	20.39	5.36	790.24	13.26	34.89	0.46	137.87
Last 5	14:57:47	600.02	20.33	5.39	791.87	11.36	35.04	0.52	132.14
Last 5	15:02:47	900.02	20.46	5.37	789.43	9.58	35.11	0.24	131.53
Last 5	15:07:48	1201.02	20.42	5.35	789.77	5.91	35.13	0.31	131.18
Last 5	15:12:48	1501.02	20.68	5.34	792.90	4.01	35.17	0.13	129.66
Variance 0			0.13	-0.02	-2.44			-0.28	-0.61
Variance 1			-0.04	-0.02	0.34			0.07	-0.35
Variance 2			0.26	-0.01	3.13			-0.18	-1.51

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-12 10:28:59

Project Information:

Operator Name K. Minkara
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 27 ft

Pump placement from TOC 27 ft

Well Information:

Well ID DGWC-47
Well diameter 2 in
Well Total Depth 31.93 ft
Screen Length 10 ft
Depth to Water 20.36 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2105124 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 51 in
Total Volume Pumped 14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:05:31	2099.96	23.86	4.31	412.88	0.48	23.70	0.60	410.90
Last 5	10:10:31	2399.95	24.09	4.36	413.74	0.61	23.94	0.42	435.02
Last 5	10:15:33	2701.94	24.11	4.39	413.85	0.88	24.27	0.35	485.82
Last 5	10:20:33	3001.93	24.16	4.42	415.43	0.52	24.40	0.32	549.87
Last 5	10:25:34	3302.92	24.19	4.43	418.05	0.33	24.61	0.24	584.96
Variance 0			0.02	0.03	0.11			-0.07	50.80
Variance 1			0.05	0.03	1.58			-0.03	64.05
Variance 2			0.03	0.01	2.61			-0.08	35.08

Notes

30min @ 300mL/min, 25min @ 200mL/min. Extra rad here

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-13 10:23:14

Project Information:

Operator Name J. Waguespack
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 28.5 ft

Pump placement from TOC 28.5 ft

Well Information:

Well ID DGWC-48
Well diameter 2 in
Well Total Depth 33.49 ft
Screen Length 10 ft
Depth to Water 16.80 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3422076 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 35.4 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:26:41	300.14	20.79	4.28	719.33	1.60	18.62	0.41	127.85
Last 5	09:31:41	600.02	20.57	4.25	724.20	1.20	19.17	0.32	118.21
Last 5	09:36:41	900.02	20.51	4.26	726.46	0.77	19.49	0.31	114.12
Last 5	09:41:41	1200.02	20.48	4.27	728.71	1.01	19.69	0.30	111.14
Last 5	09:46:42	1501.02	20.35	4.26	729.92	0.75	19.75	0.27	109.58
Variance 0			-0.06	0.00	2.26			-0.01	-4.09
Variance 1			-0.03	0.01	2.25			-0.01	-2.98
Variance 2			-0.13	-0.00	1.21			-0.03	-1.56

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-17 13:34:21

Project Information:

Operator Name J. Waguespack
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 38 ft

Pump placement from TOC 38 ft

Well Information:

Well ID B-3
Well diameter 2 in
Well Total Depth 40.32 ft
Screen Length 10 ft
Depth to Water 34.92 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3846101 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.5 in
Total Volume Pumped 10.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:48:11	900.65	20.15	5.51	1166.33	1.69	35.35	0.20	149.79
Last 5	12:53:11	1200.65	20.00	5.51	1164.60	2.32	35.38	0.19	150.18
Last 5	12:58:11	1500.65	20.04	5.51	1168.58	2.52	35.38	0.19	150.50
Last 5	13:03:11	1800.65	20.11	5.51	1169.17	2.03	35.38	0.18	150.83
Last 5	13:08:11	2100.65	20.13	5.51	1166.75	1.72	35.38	0.17	151.17
Variance 0			0.04	-0.00	3.97			0.01	0.33
Variance 1			0.07	-0.00	0.59			-0.02	0.32
Variance 2			0.02	-0.00	-2.42			-0.01	0.34

Notes

Purge 3 well volumes per SOP

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-17 12:02:57

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 42.90 ft

Pump placement from TOC 42.90 ft

Well Information:

Well ID B-56
Well diameter 2 in
Well Total Depth 47.90 ft
Screen Length 10 ft
Depth to Water 29.21 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.2814808 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:44:55	300.03	23.12	4.94	472.38	11.70	29.51	0.73	142.84
Last 5	11:49:55	600.02	23.14	4.87	472.71	5.02	29.50	0.64	150.66
Last 5	11:54:55	900.02	23.13	4.84	475.79	5.83	29.51	0.59	157.94
Last 5	11:59:55	1200.02	22.96	4.82	478.16	4.38	29.52	0.52	160.32
Last 5									
Variance 0			0.02	-0.07	0.34			-0.09	7.83
Variance 1			-0.01	-0.04	3.08			-0.05	7.28
Variance 2			-0.17	-0.02	2.37			-0.07	2.39

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-13 16:58:05

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 36.50 ft

Pump placement from TOC 36.50 ft

Well Information:

Well ID B-77
Well diameter 2 in
Well Total Depth 41.55 ft
Screen Length 10 ft
Depth to Water 30.46 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.377915 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10 in
Total Volume Pumped 6.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:35:43	1499.92	27.87	6.10	281.57	32.40	31.29	0.26	-34.40
Last 5	16:40:43	1799.92	28.80	6.09	277.39	20.80	31.30	0.23	-36.73
Last 5	16:45:44	2100.92	28.42	6.11	275.85	15.20	31.31	0.21	-38.14
Last 5	16:50:44	2400.98	27.90	6.12	276.43	9.35	31.32	0.20	-39.98
Last 5	16:55:44	2700.94	27.52	6.14	274.04	4.79	31.33	0.19	-40.91
Variance 0			-0.39	0.01	-1.54			-0.02	-1.41
Variance 1			-0.52	0.02	0.58			-0.01	-1.84
Variance 2			-0.38	0.02	-2.39			-0.01	-0.93

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-17 14:26:13

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 42.65 ft

Pump placement from TOC 42.65 ft

Well Information:

Well ID B-82
Well diameter 2 in
Well Total Depth 47.65 ft
Screen Length 10 ft
Depth to Water 18.35 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.280365 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17.16 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:13:03	300.58	21.94	5.48	598.53	6.20	19.45	0.24	118.09
Last 5	14:18:27	624.58	21.32	5.47	604.90	3.83	19.58	0.18	118.89
Last 5	14:23:27	924.58	21.22	5.48	605.45	3.55	19.78	0.15	119.86
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.62	-0.01	6.37			-0.06	0.80
Variance 2			-0.10	0.02	0.55			-0.03	0.97

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-14 13:03:13

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 44.0 ft

Pump placement from TOC 44.0 ft

Well Information:

Well ID B-83
Well diameter 2 in
Well Total Depth 49.0 ft
Screen Length 10 ft
Depth to Water 32.15 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4113906 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:41:05	3300.91	22.78	5.60	328.95	16.00	32.39	0.12	91.76
Last 5	12:46:05	3600.91	23.19	5.60	329.24	13.10	32.39	0.13	92.13
Last 5	12:51:05	3900.91	23.41	5.59	329.82	10.20	32.39	0.13	92.84
Last 5	12:56:05	4200.91	23.44	5.59	329.03	7.60	32.40	0.13	93.52
Last 5	13:01:05	4500.91	23.50	5.59	329.28	4.83	32.40	0.12	94.21
Variance 0			0.22	-0.01	0.58			0.00	0.70
Variance 1			0.03	0.01	-0.79			-0.01	0.69
Variance 2			0.07	-0.00	0.25			-0.00	0.69

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-17 10:44:25

Project Information:

Operator Name C. Tidwell
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type samplepro
Tubing Type polyethelene
Tubing Diameter .170 in
Tubing Length 70.0 ft

Pump placement from TOC 70.0 ft

Well Information:

Well ID B-88
Well diameter 2 in
Well Total Depth 75.12 ft
Screen Length 10 ft
Depth to Water 32.39 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5274396 L
Calculated Sample Rate 300 sec
Stabilization Drawdown .1 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:22:22	1500.02	20.40	5.78	968.31	15.60	32.39	0.23	83.55
Last 5	10:27:22	1800.08	20.55	5.77	969.28	15.40	32.40	0.21	83.72
Last 5	10:32:22	2100.08	20.27	5.77	971.76	13.30	32.40	0.20	83.80
Last 5	10:37:22	2400.08	20.46	5.76	983.74	8.76	32.40	0.19	83.66
Last 5	10:42:22	2700.08	20.64	5.76	976.72	4.58	32.40	0.19	83.26
Variance 0			-0.28	-0.00	2.48			-0.01	0.08
Variance 1			0.19	-0.01	11.98			-0.00	-0.14
Variance 2			0.18	-0.00	-7.02			-0.01	-0.39

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-08-19 13:02:59

Project Information:

Operator Name J. Waguespack
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 24 ft

Pump placement from TOC 24 ft

Well Information:

Well ID B-93
Well diameter 2 in
Well Total Depth 29.0 ft
Screen Length 10 ft
Depth to Water 7.66 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3221222 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.24 in
Total Volume Pumped 16.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:09:52	2101.02	19.50	4.76	917.67	12.50	8.69	0.58	149.00
Last 5	12:14:53	2402.02	19.64	4.77	916.68	9.80	8.66	0.57	155.85
Last 5	12:19:53	2702.02	19.77	4.77	914.93	9.10	8.67	0.56	164.35
Last 5	12:24:53	3002.02	19.62	4.77	913.27	6.83	8.67	0.57	176.17
Last 5	12:29:54	3302.45	19.68	4.78	913.09	4.52	8.68	0.56	189.97
Variance 0			0.13	0.00	-1.76			-0.01	8.50
Variance 1			-0.15	-0.00	-1.66			0.01	11.82
Variance 2			0.05	0.01	-0.17			-0.01	13.80

Notes

Grab Samples

APPENDIX A

**Well Inspection Form
August 2020**

**WELL INSPECTION FORM
PLANT MCDONOUGH
AUGUST 2020**

Well-ID	POSITION ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Is the well visible and accessible? b. Is the well property identified/Correct Well ID? c. Is the well in high traffic area require traffic Protection? d. Is the drainage around the well acceptable (No standing water)? (Y / N / NA)	a. Is protective casing free from damage? b. Is casing free of degradation or deterioration? c. Does casing have functioning weep hole? d. Is the annual space clear of debris and water, or filled with pea gravel? e. Is the well locked and in good condition? (Y / N / NA)	a. Pad in Good Condition b. Pad Sloped away from Well? c. In contact with Protective Casing? d. In Contact with Ground Surface and Stable? e. Free of Debris? (Y / N / NA)	a. Does the cap prevent entry of foreign material? b. Is the casing free of kinks or bends or any obstruction from foreign objects? c. Is the well property vented for equilibrium of air pressure? d. Is the survey point clearly marked on the inner casing? e. Is the depth of the well consistent with the well log? f. Is the casing stable? (Y / N / NA)	a. Does well recharge adequately when purged? b. If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c. Does the well require redevelopment? (Y / N / NA)
DGWA-53	↑	Y (a, b, c ["man on the ground"-Haul Road], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWA-70A	↑	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWA-71	↑	Y (a, b, d) ; N (c)	Y (b, c, d, e) ; N (a [cracked lid])	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-2	↓	Y (a, b, c ["man on the ground"-Haul Road], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-4	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-5	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-8	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-9	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	NA (b) ; N (a [may need 3 well vol. purge], c)
DGWC-10	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-11	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-12	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-13	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-14	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-15	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-17	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-19	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-20	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-21	↓	Y (b, d) ; N (a [area overgrown], c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, c, d, e, f) ; N (b [kink])	Y (a) ; NA (b) ; N (c)
DGWC-22	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-23	↓	Y (a, b, c ["man on the ground"-Haul Road], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-37	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-38	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-39	↓	Y (a [stream crossing], b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-40	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-42	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c [historic NTU issues])
DGWC-47	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	NA (b) ; N (a, c)
DGWC-48	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-67	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-68A	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
DGWC-69	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)

**WELL INSPECTION FORM
PLANT MCDONOUGH
AUGUST 2020**

Well-ID	POSITION ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Is the well visible and accessible? b. Is the well property identified/Correct Well ID? c. Is the well in high traffic area require traffic Protection? d. Is the drainage around the well acceptable (No standing water)? (Y / N / NA)	a. Is protective casing free from damage? b. Is casing free of degradation or deterioration? c. Does casing have functioning weep hole? d. Is the annual space clear of debris and water, or filled with pea gravel? e. Is the well locked and in good condition? (Y / N / NA)	a. Pad in Good Condition b. Pad Sloped away from Well? c. In contact with Protective Casing? d. In Contact with Ground Surface and Stable? e. Free of Debris? (Y / N / NA)	a. Does the cap prevent entry of foreign material? b. Is the casing free of kinks or bends or any obstruction from foreign objects? c. Is the well property vented for equilibrium of air pressure? d. Is the survey point clearly marked on the inner casing? e. Is the depth of the well consistent with the well log? f. Is the casing stable? (Y / N / NA)	a. Does well recharge adequately when purged? b. If dedicated sampling equipment installed, is it in good condition and specified in the approved groundater plan for the facility? c. Does the well require redevelopment? (Y / N / NA)
B-3	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-6	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-7	↓	Y (b, d) ; N (a [sampling from truck blocks road], c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-16	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-18	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-24	↓	Y (a, b, c ["man on the ground"-Haul Road], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-25	↓	Y (a, b, c ["man on the ground"-Haul Road], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-26	↓	Y (a, b, c ["man on the ground"-Haul Road], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-28	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-29	↓	Y (a [Southern Co Lab, check in at gate buzzer], b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-31	↓	Y (a [Southern Co Lab, check in at gate buzzer], b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-41	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-50	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-51	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-52	↓	Y (a [Southern Co Lab, check in at gate buzzer], b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-54	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-55	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-56	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-57	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-58	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-59	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-60	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-61	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-62	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-63	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-64	↓	Y (a, b, c [traffic control required], d)	Y (a, b, c, d, e)	Y (b, c, d, e) ; N (a [rings disconnected from pad])	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-65	↓	Y (a [parking lot of concrete plant, walk upstairs to check-in], b, d) ; N (c)	Y (a, b, c, d) ; N (e [missing catcher for one screw])	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-66	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-68	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-76	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)

**WELL INSPECTION FORM
PLANT MCDONOUGH
AUGUST 2020**

Well-ID	POSITION ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Is the well visible and accessible? b. Is the well property identified/Correct Well ID? c. Is the well in high traffic area require traffic Protection? d. Is the drainage around the well acceptable (No standing water)? (Y / N / NA)	a. Is protective casing free from damage? b. Is casing free of degradation or deterioration? c. Does casing have functioning weep hole? d. Is the annual space clear of debris and water, or filled with pea gravel? e. Is the well locked and in good condition? (Y / N / NA)	a. Pad in Good Condition b. Pad Sloped away from Well? c. In contact with Protective Casing? d. In Contact with Ground Surface and Stable? e. Free of Debris? (Y / N / NA)	a. Does the cap prevent entry of foreign material? b. Is the casing free of kinks or bends or any obstruction from foreign objects? c. Is the well property vented for equilibrium of air pressure? d. Is the survey point clearly marked on the inner casing? e. Is the depth of the well consistent with the well log? f. Is the casing stable? (Y / N / NA)	a. Does well recharge adequately when purged? b. If dedicated sampling equipment installed, is it in good condition and specified in the approved groundater plan for the facility? c. Does the well require redevelopment? (Y / N / NA)
B-77	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-78	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-79	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-80	↓	Y (b, d) ; N (a [sampling from truck blocks road], c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-81	↓	Y (b, d) ; N (a [sampling from truck blocks road], c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-82	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-83	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	NA (b) ; N (a, c)
B-84	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	NA (b) ; N (a, c)
B-85	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-86	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-87	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-88	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-89	↓	Y (a [parking lot of concrete plant, walk upstairs to check-in], b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-90	↓	Y (a, b, c [traffic control required], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-91	↓	Y (a, b, c [traffic control required], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-92	↓	Y (a, b, c [traffic control required], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-93	↓	Y (a, b, c [traffic control required], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-94	↓	Y (a, b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-95	↓	Y (a, b, c [traffic control required], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-96	↓	Y (a, b, c [traffic control required], d)	Y (a, b, d, e) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-97	↓	Y (a, c [traffic control required], d) ; N (b [missing label])	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-98	↓	Y (a, b, c [traffic control required], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-99	↓	Y (a, b, c [traffic control required], d)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
B-100	↓	Y (a [contractor parking lot], b, d) ; N (c)	Y (a, b, c, d, e)	Y (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
AP-1-B-3	IW	Y (a [walk up access only], b, d) ; N (c)	Y (a, b, c, d, e)	NA (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
AP-1-B-7	IW	Y (a [walk up access only], b, d) ; N (c)	Y (a, b, c, d, e)	NA (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)
AP-1-B-8	IW	Y (a [walk up access only], b, d) ; N (c)	Y (a, b, c, d, e)	NA (a, b, c, d, e)	Y (a, b, c, d, e, f)	Y (a) ; NA (b) ; N (c)

NOTES:
IW = Interstitial Well

APPENDIX A

**Field Data Forms
September 2020**

Low-Flow Test Report:

Test Date / Time: 9/22/2020 12:18:45 PM

Project: Plant McDonough (3)

Operator Name: Chris Tidwell

Location Name: DGWA-53 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.84 ft Total Depth: 36.84 ft Initial Depth to Water: 14.1 ft	Pump Type: Alexis Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.61 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728550
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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	+/- 5	
9/22/2020 12:18 PM	00:00	5.51 pH	30.03 °C	0.00 µS/cm	6.88 mg/L		130.3 mV	14.10 ft	150.00 ml/min
9/22/2020 12:23 PM	05:00	6.29 pH	21.90 °C	207.42 µS/cm	1.18 mg/L	2.63 NTU	5.0 mV	14.59 ft	150.00 ml/min
9/22/2020 12:28 PM	10:00	6.38 pH	20.69 °C	213.28 µS/cm	0.62 mg/L	2.79 NTU	-12.1 mV	15.05 ft	150.00 ml/min
9/22/2020 12:33 PM	15:00	6.41 pH	21.03 °C	212.81 µS/cm	0.46 mg/L	4.11 NTU	-8.8 mV	15.49 ft	150.00 ml/min
9/22/2020 12:38 PM	20:00	6.43 pH	20.64 °C	210.82 µS/cm	0.42 mg/L	4.05 NTU	-21.2 mV	15.71 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2020-09-22 10:35:20

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 57.5 ft

Pump placement from TOC 57.5 ft

Well Information:

Well ID DGWA-70A
Well diameter 2 in
Well Total Depth 62.40 ft
Screen Length 10 ft
Depth to Water 40.35 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4716468 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9.48 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:05:41	300.07	17.65	6.30	59.17	17.00	41.00	4.74	96.04
Last 5	10:10:41	600.02	17.36	6.10	59.66	10.11	41.05	4.50	95.80
Last 5	10:15:41	900.02	17.36	6.04	59.26	5.91	41.09	4.43	96.88
Last 5	10:20:41	1200.02	17.36	6.01	59.57	3.67	41.14	4.43	97.45
Last 5									
Variance 0			-0.29	-0.20	0.49			-0.25	-0.23
Variance 1			0.00	-0.06	-0.40			-0.07	1.08
Variance 2			-0.00	-0.03	0.30			-0.00	0.57

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 11:52:45

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 42 ft

Pump placement from TOC 42 ft

Well Information:

Well ID DGWA-71
Well diameter 2 in
Well Total Depth 47.79 ft
Screen Length 10 ft
Depth to Water 28.55 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4024638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.04 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:30:48	300.05	18.12	6.11	72.01	11.76	29.09	0.83	102.15
Last 5	11:35:48	600.02	17.90	6.07	72.11	6.02	29.19	0.73	99.15
Last 5	11:40:48	900.02	17.86	6.07	72.40	2.49	29.22	0.70	98.05
Last 5	11:45:48	1200.02	17.83	6.06	72.16	1.21	29.22	0.71	97.71
Last 5									
Variance 0			-0.22	-0.03	0.10			-0.10	-3.00
Variance 1			-0.04	-0.01	0.30			-0.03	-1.10
Variance 2			-0.03	-0.01	-0.24			0.01	-0.34

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-23 12:38:34

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Samplepro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 47 ft

Pump placement from TOC 47 ft

Well Information:

Well ID DGWC-2
Well diameter 2 in
Well Total Depth 52.41 ft
Screen Length 10 ft
Depth to Water 30.47 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4247809 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.16 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	12:25:06	300.05	19.63	6.00	380.49	4.87	30.82	0.98	52.99
Last 5	12:30:06	600.01	19.05	5.99	378.00	2.15	30.85	0.41	47.29
Last 5	12:35:06	900.00	19.21	5.99	377.01	2.44	30.90	0.20	44.65
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.58	-0.00	-2.48			-0.57	-5.69
Variance 2			0.15	-0.00	-0.99			-0.21	-2.64

Notes

Started purging at 1420
Stopped purging and began sampling at 1235

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 09:51:13

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 41 ft

Pump placement from TOC 41 ft

Well Information:

Well ID DGWC-4
Well diameter 2 in
Well Total Depth 46.71 ft
Screen Length 10 ft
Depth to Water 23.40 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2730004 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.64 in
Total Volume Pumped 30 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:37:55	300.04	17.58	5.91	1671.31	0.95	23.60	0.39	64.57
Last 5	09:42:55	600.00	17.72	5.89	1688.55	0.59	23.62	0.26	48.34
Last 5	09:47:55	899.99	17.64	5.88	1697.75	0.18	23.62	0.22	41.08
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.13	-0.02	17.23			-0.13	-16.23
Variance 2			-0.08	-0.00	9.20			-0.04	-7.25

Notes

Started purging at 0932
Stopped purging and began sampling at 0950

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 11:09:34

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 28 ft

Pump placement from TOC 28 ft

Well Information:

Well ID DGWC-5
Well diameter 2 in
Well Total Depth 33.23 ft
Screen Length 10 ft
Depth to Water 8.95 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.37 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	10:46:37	300.01	19.62	4.44	556.81	0.61	9.21	0.88	432.83
Last 5	10:51:37	600.00	19.69	4.50	662.30	0.19	9.23	0.79	460.81
Last 5	10:56:37	899.99	19.65	4.82	892.58	0.15	9.23	0.35	519.33
Last 5	11:01:37	1199.98	19.41	4.82	896.70	0.16	9.23	0.34	526.10
Last 5	11:06:37	1499.97	19.52	4.83	894.26	0.15	9.23	0.33	528.79
Variance 0			-0.04	0.32	230.28			-0.44	58.52
Variance 1			-0.25	0.00	4.11			-0.01	6.77
Variance 2			0.11	0.01	-2.43			-0.01	2.69

Notes

Started purging at 1041
Stopped purging and began samples at 1110

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-23 16:01:00

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Samplepro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 46 ft

Pump placement from TOC 46 ft

Well Information:

Well ID DGWC-8
Well diameter 2 in
Well Total Depth 51.33 ft
Screen Length 10 ft
Depth to Water 32.83 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4203174 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.04 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:37:47	1200.00	20.92	5.21	447.56	5.55	33.00	0.90	40.84
Last 5	15:42:47	1499.99	20.99	5.22	453.10	4.24	33.00	0.62	39.14
Last 5	15:47:47	1799.98	20.32	5.22	454.70	3.29	33.00	0.52	37.87
Last 5	15:52:47	2099.98	20.52	5.21	457.70	3.02	33.00	0.45	36.87
Last 5	15:57:47	2399.97	21.01	5.21	458.54	2.54	33.00	0.40	36.45
Variance 0			-0.67	0.00	1.60			-0.10	-1.27
Variance 1			0.20	-0.00	3.00			-0.07	-1.00
Variance 2			0.50	-0.00	0.84			-0.06	-0.42

Notes

Started purging at 1517
Stopped purging and began sampling at 1600

Grab Samples

Low-Flow Test Report:

Test Date / Time: 9/22/2020 9:41:54 AM

Project: Plant McDonough

Operator Name: Chris Tidwell

Location Name: DGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.7 ft Total Depth: 33.7 ft Initial Depth to Water: 24 ft	Pump Type: Alexis Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 4323.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.34 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728550
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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	+/- 5	
9/22/2020 9:41 AM	00:00	3.96 pH	16.19 °C	751.42 µS/cm	3.32 mg/L		167.7 mV	24.00 ft	200.00 ml/min
9/22/2020 9:46 AM	05:00	3.98 pH	17.33 °C	683.47 µS/cm	2.04 mg/L		199.7 mV	24.00 ft	200.00 ml/min
9/22/2020 9:47 AM	05:31	3.98 pH	17.37 °C	682.67 µS/cm	2.00 mg/L	7.42 NTU	196.5 mV	24.29 ft	200.00 ml/min
9/22/2020 9:48 AM	06:33	3.99 pH	17.46 °C	680.03 µS/cm	1.96 mg/L		192.9 mV	24.00 ft	200.00 ml/min
9/22/2020 9:51 AM	10:03	3.99 pH	17.59 °C	677.70 µS/cm	1.98 mg/L	12.04 NTU	177.9 mV	24.31 ft	200.00 ml/min
9/22/2020 9:56 AM	15:03	3.99 pH	17.64 °C	681.95 µS/cm	1.88 mg/L	2.44 NTU	111.4 mV	24.33 ft	200.00 ml/min
9/22/2020 10:01 AM	20:03	4.00 pH	17.74 °C	681.62 µS/cm	1.81 mg/L	1.39 NTU	107.1 mV	24.34 ft	200.00 ml/min
9/22/2020 10:03 AM	21:37	4.00 pH	17.77 °C	684.09 µS/cm	1.79 mg/L		148.7 mV	24.34 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2020-09-24 09:57:10

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Samplepro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 43 ft

Pump placement from TOC 43 ft

Well Information:

Well ID DGWC-10
Well diameter 2 in
Well Total Depth 47.8 ft
Screen Length 10 ft
Depth to Water 29.70 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4069272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.92 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:45:03	300.05	18.16	4.88	469.99	1.79	30.11	6.56	103.82
Last 5	09:50:03	600.01	18.14	4.89	469.56	1.28	30.11	6.47	93.67
Last 5	09:55:03	900.01	18.16	4.89	469.56	0.97	30.11	6.41	88.95
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.02	0.00	-0.43			-0.09	-10.14
Variance 2			0.02	-0.00	-0.00			-0.06	-4.72

Notes

Started purging at 0940
Stopped purging and began sampling at 0955

Grab Samples

Low-Flow Test Report:

Test Date / Time: 9/22/2020 10:47:25 AM

Project: Plant McDonough (2)

Operator Name: Chris Tidwell

Location Name: DGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.72 ft Total Depth: 51.72 ft Initial Depth to Water: 13.64 ft	Pump Type: Alexis Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.7 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728550
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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	+/- 5	
9/22/2020 10:47 AM	00:00	5.55 pH	20.13 °C	633.91 µS/cm	2.14 mg/L		88.2 mV	13.64 ft	200.00 ml/min
9/22/2020 10:52 AM	05:00	5.53 pH	19.71 °C	662.52 µS/cm	0.31 mg/L	2.55 NTU	97.8 mV	14.32 ft	200.00 ml/min
9/22/2020 10:57 AM	10:00	5.53 pH	19.82 °C	663.10 µS/cm	0.25 mg/L	3.93 NTU	88.2 mV	14.35 ft	200.00 ml/min
9/22/2020 11:02 AM	15:00	5.53 pH	19.61 °C	659.28 µS/cm	0.22 mg/L	2.48 NTU	82.7 mV	14.34 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/22/2020 2:51:42 PM

Project: Plant McDonough (4)

Operator Name: Chris Tidwell

Location Name: DGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.24 ft Total Depth: 28.24 ft Initial Depth to Water: 8.89 ft	Pump Type: Alexis Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.15 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728550
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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	+/- 5	
9/22/2020 2:51 PM	00:00	5.86 pH	23.36 °C	661.56 µS/cm	1.08 mg/L		40.5 mV	8.89 ft	200.00 ml/min
9/22/2020 2:56 PM	05:00	5.79 pH	21.70 °C	681.46 µS/cm	0.33 mg/L	17.30 NTU	45.8 mV	9.03 ft	200.00 ml/min
9/22/2020 3:01 PM	10:00	5.79 pH	21.34 °C	675.92 µS/cm	0.26 mg/L	20.90 NTU	59.2 mV	9.04 ft	200.00 ml/min
9/22/2020 3:06 PM	15:00	5.79 pH	20.98 °C	669.53 µS/cm	0.24 mg/L	22.00 NTU	47.1 mV	9.04 ft	200.00 ml/min
9/22/2020 3:11 PM	20:00	5.79 pH	21.05 °C	666.90 µS/cm	0.23 mg/L	16.20 NTU	47.4 mV	9.04 ft	200.00 ml/min
9/22/2020 3:16 PM	25:00	5.80 pH	20.89 °C	664.09 µS/cm	0.22 mg/L	13.30 NTU	59.7 mV	9.04 ft	200.00 ml/min
9/22/2020 3:21 PM	30:00	5.82 pH	20.84 °C	656.23 µS/cm	0.21 mg/L	7.23 NTU	46.8 mV	9.04 ft	200.00 ml/min
9/22/2020 3:26 PM	35:00	5.86 pH	20.96 °C	632.23 µS/cm	0.20 mg/L	7.99 NTU	52.9 mV	9.04 ft	200.00 ml/min
9/22/2020 3:31 PM	40:00	5.95 pH	21.03 °C	582.06 µS/cm	0.21 mg/L	8.55 NTU	36.7 mV	9.04 ft	200.00 ml/min
9/22/2020 3:36 PM	45:00	5.99 pH	21.33 °C	556.50 µS/cm	0.21 mg/L	5.66 NTU	33.9 mV	9.04 ft	200.00 ml/min
9/22/2020 3:41 PM	50:00	6.00 pH	21.60 °C	558.58 µS/cm	0.21 mg/L	4.91 NTU	38.1 mV	9.04 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2020-09-23 10:32:18

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Samplepro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 41 ft

Pump placement from TOC 41 ft

Well Information:

Well ID DGWC-13
Well diameter 2 in
Well Total Depth 46.70 ft
Screen Length 10 ft
Depth to Water 32.50 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3980004 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.4 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	10:08:26	300.06	20.21	5.76	408.98	12.90	32.75	3.77	74.16
Last 5	10:13:26	600.01	20.43	5.73	407.41	8.66	32.75	3.72	66.20
Last 5	10:18:26	900.01	20.53	5.73	406.97	7.65	32.75	3.63	61.37
Last 5	10:23:26	1200.00	20.55	5.72	407.25	5.22	32.75	3.60	58.29
Last 5	10:28:26	1500.00	20.67	5.72	406.69	3.23	32.75	3.59	56.11
Variance 0			0.10	-0.00	-0.44			-0.09	-4.84
Variance 1			0.03	-0.00	0.28			-0.02	-3.08
Variance 2			0.12	-0.01	-0.56			-0.02	-2.18

Notes

Started purging at 1003
Stopped purging and began sampling at 1030

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 14:29:09

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 33 ft

Pump placement from TOC 33 ft

Well Information:

Well ID DGWC-14
Well diameter 2 in
Well Total Depth 37.97 ft
Screen Length 10 ft
Depth to Water 21.04 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.237293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.32 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:15:01	300.01	19.23	5.70	146.50	0.82	21.15	4.60	111.61
Last 5	14:20:01	600.00	19.22	5.70	146.93	1.31	21.15	4.60	96.17
Last 5	14:25:01	899.99	19.36	5.70	146.77	0.86	21.15	4.61	87.84
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.01	-0.00	0.44			-0.00	-15.44
Variance 2			0.14	-0.00	-0.17			0.01	-8.33

Notes

Started purging at 1410
Stopped purging and began sampling at 1425 (FD-1 sampled here)

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-23 13:57:55

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Samplepro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 65 ft

Pump placement from TOC 65 ft

Well Information:

Well ID DGWC-15
Well diameter 2 in
Well Total Depth 70.75 ft
Screen Length 10 ft
Depth to Water 39.50 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5051225 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 21.6 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:35:01	600.01	21.74	5.88	435.60	4.95	41.19	0.81	43.56
Last 5	13:40:01	900.00	22.08	5.87	436.47	3.41	41.23	0.67	39.39
Last 5	13:45:01	1199.98	22.26	5.85	435.63	2.31	41.27	0.57	36.75
Last 5	13:50:01	1499.99	22.11	5.85	441.96	1.74	41.30	0.43	34.33
Last 5	13:55:01	1799.98	21.81	5.85	439.52	1.35	41.30	0.26	32.89
Variance 0			0.18	-0.02	-0.84			-0.10	-2.64
Variance 1			-0.15	0.00	6.33			-0.15	-2.42
Variance 2			-0.29	-0.00	-2.44			-0.17	-1.43

Notes

Started purging at 1325
Stopped purging and began sampling at 1355

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-24 14:05:18

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Samplepro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 43 ft

Pump placement from TOC 43 ft

Well Information:

Well ID DGWC-17
Well diameter 2 in
Well Total Depth 47.95 ft
Screen Length 10 ft
Depth to Water 32.55 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4069272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.6 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:46:46	300.05	18.87	5.12	613.12	10.27	32.85	0.17	28.71
Last 5	13:51:46	600.01	18.87	5.11	612.83	6.83	32.85	0.13	29.61
Last 5	13:56:46	900.01	18.86	5.10	613.28	5.20	32.85	0.11	29.88
Last 5	14:01:46	1200.00	18.87	5.10	612.09	4.04	32.85	0.10	30.28
Last 5									
Variance 0			-0.00	-0.01	-0.29			-0.04	0.90
Variance 1			-0.01	-0.01	0.44			-0.02	0.27
Variance 2			0.01	-0.01	-1.19			-0.01	0.40

Notes

Stopped purging and began sampling at 1405. FD-3 samples here

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 16:12:33

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 38 ft

Pump placement from TOC 38 ft

Well Information:

Well ID DGWC-19
Well diameter 2 in
Well Total Depth 43.15 ft
Screen Length 10 ft
Depth to Water 24.21 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2596101 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.48 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:55:02	300.02	20.59	4.92	755.03	11.40	24.50	0.21	450.40
Last 5	16:00:02	600.01	20.54	4.90	757.44	7.94	24.50	0.18	466.60
Last 5	16:05:02	899.99	20.50	4.90	752.07	7.31	24.50	0.18	471.89
Last 5	16:10:02	1199.98	20.30	4.91	749.02	3.42	24.50	0.20	472.72
Last 5									
Variance 0			-0.06	-0.01	2.42			-0.03	16.20
Variance 1			-0.04	0.00	-5.38			0.00	5.29
Variance 2			-0.20	0.01	-3.04			0.02	0.83

Notes

Started purging at 1550
Stopped purging and began sampling at 1610

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 12:40:05

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 38 ft

Pump placement from TOC 38 ft

Well Information:

Well ID DGWC-20
Well diameter 2 in
Well Total Depth 43.30 ft
Screen Length 10 ft
Depth to Water 22.85 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2596101 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11.76 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	12:25:07	300.02	20.07	4.69	924.68	2.60	23.78	0.72	156.17
Last 5	12:30:07	600.00	19.70	4.68	927.65	1.44	23.80	0.35	128.15
Last 5	12:35:07	899.99	19.65	4.66	926.17	0.41	23.83	0.24	113.29
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.38	-0.01	2.97			-0.36	-28.03
Variance 2			-0.04	-0.01	-1.48			-0.11	-14.86

Notes

Started purging at 1220
Stopped purging and began sampling at 1235

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-24 12:35:08

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 67 ft

Pump placement from TOC 67 ft

Well Information:

Well ID DGWC-21
Well diameter 2 in
Well Total Depth 72.62 ft
Screen Length 10 ft
Depth to Water 17.28 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3890494 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.96 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	12:18:23	300.05	19.26	5.64	667.81	0.42	17.61	0.33	79.64
Last 5	12:23:23	600.01	19.19	5.64	669.32	0.22	17.61	0.23	81.27
Last 5	12:28:23	900.01	19.23	5.64	672.70	0.10	17.61	0.19	78.50
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.06	0.00	1.51			-0.10	1.63
Variance 2			0.04	-0.00	3.38			-0.04	-2.76

Notes

Started purging at 1213
Stopped purging and began sampling at 1230

Grab Samples

Low-Flow Test Report:

Test Date / Time: 9/24/2020 12:06:18 PM

Project: Plant McDonough (9)

Operator Name: Chris Tidwell

Location Name: DGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.45 ft Total Depth: 63.45 ft Initial Depth to Water: 20.25 ft	Pump Type: Alexis Peristaltic Tubing Type: Polyethylene Pump Intake From TOC: 58.5 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728550
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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	+/- 5	
9/24/2020 12:06 PM	00:00	6.78 pH	19.42 °C	641.83 µS/cm	8.24 mg/L		90.5 mV	20.25 ft	200.00 ml/min
9/24/2020 12:11 PM	05:00	5.74 pH	19.51 °C	649.32 µS/cm	0.71 mg/L	1.16 NTU	83.8 mV	20.39 ft	200.00 ml/min
9/24/2020 12:16 PM	10:00	5.72 pH	19.46 °C	651.69 µS/cm	0.53 mg/L	0.18 NTU	110.6 mV	20.40 ft	200.00 ml/min
9/24/2020 12:21 PM	15:00	5.69 pH	19.43 °C	648.80 µS/cm	0.44 mg/L	0.16 NTU	85.8 mV	20.41 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2020-09-24 13:14:11

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 58.5 ft

Pump placement from TOC 58.5 ft

Well Information:

Well ID DGWC-23
Well diameter 2 in
Well Total Depth 63.44 ft
Screen Length 10 ft
Depth to Water 19.49 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.3511102 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 60.12 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:42:13	1200.02	18.30	6.22	713.95	0.55	23.52	0.21	94.83
Last 5	12:47:13	1500.02	18.32	6.22	712.11	0.69	24.00	0.21	96.20
Last 5	12:52:13	1800.02	18.30	6.20	706.73	0.51	24.25	0.22	97.29
Last 5	12:57:13	2100.02	18.26	6.20	703.62	0.32	24.40	0.24	98.88
Last 5	13:02:13	2400.02	18.30	6.19	701.78	0.35	24.50	0.26	100.38
Variance 0			-0.02	-0.01	-5.38			0.01	1.09
Variance 1			-0.04	-0.00	-3.11			0.02	1.59
Variance 2			0.04	-0.01	-1.84			0.01	1.50

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-22 16:37:42

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 47.5 ft

Pump placement from TOC 47.5 ft

Well Information:

Well ID DGWC-42
Well diameter 2 in
Well Total Depth 52.50 ft
Screen Length 10 ft
Depth to Water 31.42 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4270126 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.96 in
Total Volume Pumped 52.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:06:13	9311.98	20.24	5.77	759.10	17.60	31.50	8.07	142.23
Last 5	16:11:13	9611.98	19.99	5.76	759.27	14.20	31.50	7.74	142.08
Last 5	16:16:13	9911.98	19.99	5.76	759.46	12.10	31.50	7.90	141.92
Last 5	16:21:13	10211.98	20.03	5.76	758.96	8.40	31.50	7.84	141.75
Last 5	16:26:13	10511.98	19.99	5.76	758.94	4.20	31.50	7.93	141.79
Variance 0			-0.00	0.00	0.20			0.16	-0.16
Variance 1			0.05	0.00	-0.50			-0.06	-0.16
Variance 2			-0.04	-0.00	-0.02			0.08	0.04

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-23 12:51:33

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 27 ft

Pump placement from TOC 27 ft

Well Information:

Well ID DGWC-47
Well diameter 2 in
Well Total Depth 31.93 ft
Screen Length 10 ft
Depth to Water 16.75 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.2105124 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 83.4 in
Total Volume Pumped 33 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:17:22	5400.03	21.58	4.39	334.83	0.57	23.35	0.55	140.06
Last 5	12:22:22	5700.01	21.60	4.39	321.65	0.32	23.42	0.93	140.03
Last 5	12:27:25	6003.01	21.64	4.39	312.49	0.38	23.50	1.12	140.07
Last 5	12:32:25	6303.01	21.68	4.39	313.85	0.22	23.60	1.25	140.71
Last 5	12:37:25	6603.01	21.76	4.40	318.81	0.34	23.70	1.14	141.35
Variance 0			0.04	0.01	-9.16			0.19	0.04
Variance 1			0.04	-0.00	1.37			0.13	0.64
Variance 2			0.08	0.01	4.95			-0.11	0.64

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-23 10:08:34

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 28.5 ft

Pump placement from TOC 28.5 ft

Well Information:

Well ID DGWC-48
Well diameter 2 in
Well Total Depth 33.49 ft
Screen Length 10 ft
Depth to Water 15.33 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.2172076 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 35.04 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:35:10	300.05	19.81	4.82	745.83	7.21	16.95	0.22	131.05
Last 5	09:40:10	600.02	19.68	4.76	737.44	3.14	17.62	0.14	133.44
Last 5	09:45:10	900.02	19.69	4.72	739.46	1.15	18.00	0.12	135.12
Last 5	09:50:10	1200.02	19.81	4.68	741.83	0.96	18.15	0.10	136.20
Last 5	09:55:11	1501.02	20.03	4.64	742.54	0.54	18.25	0.09	137.10
Variance 0			0.01	-0.04	2.03			-0.02	1.67
Variance 1			0.13	-0.04	2.36			-0.02	1.09
Variance 2			0.22	-0.04	0.71			-0.01	0.90

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-28 11:23:35

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 43 ft

Pump placement from TOC 43 ft

Well Information:

Well ID B-56
Well diameter 2 in
Well Total Depth 47.90 ft
Screen Length 10 ft
Depth to Water 27.75 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4069272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17.88 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:59:02	300.05	19.14	5.04	411.22	4.51	28.85	0.19	124.56
Last 5	11:04:02	600.02	18.92	4.98	415.10	4.19	29.10	0.11	124.86
Last 5	11:09:02	900.02	19.14	4.94	417.02	2.25	29.15	0.07	125.21
Last 5	11:14:02	1200.02	19.23	4.90	424.97	2.64	29.24	0.06	125.56
Last 5									
Variance 0			-0.23	-0.06	3.88			-0.08	0.31
Variance 1			0.22	-0.04	1.92			-0.04	0.34
Variance 2			0.09	-0.04	7.95			-0.01	0.35

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-24 14:30:39

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 36.5 ft

Pump placement from TOC 36.5 ft

Well Information:

Well ID B-77
Well diameter 2 in
Well Total Depth 41.55 ft
Screen Length 10 ft
Depth to Water 28.52 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.377915 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 18.36 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:59:06	600.02	20.43	6.28	415.90	16.50	29.48	0.38	76.07
Last 5	14:04:06	900.02	20.32	6.34	426.06	9.70	29.72	0.16	60.81
Last 5	14:09:06	1200.02	20.15	6.39	424.91	5.96	30.02	0.12	46.87
Last 5	14:14:06	1500.02	20.17	6.44	422.65	3.77	30.02	0.10	34.06
Last 5	14:19:07	1801.02	20.16	6.46	419.80	2.81	30.05	0.09	23.15
Variance 0			-0.18	0.05	-1.15			-0.04	-13.94
Variance 1			0.02	0.06	-2.27			-0.02	-12.81
Variance 2			-0.00	0.02	-2.84			-0.01	-10.91

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-28 10:28:10

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 42.5 ft

Pump placement from TOC 42.5 ft

Well Information:

Well ID B-82
Well diameter 2 in
Well Total Depth 47.65 ft
Screen Length 10 ft
Depth to Water 15.11 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.2796955 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 27.48 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:59:17	300.06	19.94	6.09	566.02	9.83	16.90	0.19	109.01
Last 5	10:04:17	600.02	19.68	5.93	568.51	6.68	17.21	0.15	110.20
Last 5	10:09:17	900.02	19.68	5.88	568.51	4.34	17.30	0.13	111.05
Last 5	10:14:17	1200.02	19.72	5.84	568.46	3.26	17.40	0.12	112.08
Last 5									
Variance 0			-0.26	-0.16	2.49			-0.04	1.19
Variance 1			-0.00	-0.05	0.01			-0.02	0.85
Variance 2			0.05	-0.04	-0.06			-0.01	1.03

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-25 09:52:57

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 44 ft

Pump placement from TOC 44 ft

Well Information:

Well ID B-83
Well diameter 2 in
Well Total Depth 49.0 ft
Screen Length 10 ft
Depth to Water 29.7 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4113906 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.44 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:20:01	600.02	20.66	6.11	429.58	12.50	29.85	0.77	98.84
Last 5	09:25:01	900.02	20.59	6.06	415.94	9.20	29.82	0.63	100.11
Last 5	09:30:01	1200.02	20.54	6.03	398.99	4.99	29.82	0.48	101.21
Last 5	09:35:01	1500.02	20.57	6.01	394.02	3.97	29.82	0.43	102.53
Last 5	09:40:01	1800.02	20.61	5.97	392.27	3.30	29.82	0.39	104.26
Variance 0			-0.06	-0.03	-16.95			-0.15	1.10
Variance 1			0.03	-0.02	-4.97			-0.05	1.32
Variance 2			0.04	-0.04	-1.75			-0.03	1.73

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-25 10:18:10

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Samplepro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 70 ft

Pump placement from TOC 70 ft

Well Information:

Well ID B-88
Well diameter 2 in
Well Total Depth 75.12 ft
Screen Length 10 ft
Depth to Water 33.5 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5274396 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	10:05:32	300.02	18.87	5.73	742.98	1.68	33.60	0.20	31.95
Last 5	10:10:32	600.01	18.95	5.75	755.41	1.47	33.60	0.17	29.74
Last 5	10:15:32	900.01	19.03	5.75	758.30	1.20	33.60	0.15	26.55
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.08	0.01	12.43			-0.03	-2.21
Variance 2			0.08	-0.00	2.90			-0.02	-3.19

Notes

Stopped purging and began sampling at 1015

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-28 09:52:29

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 24 ft

Pump placement from TOC 24 ft

Well Information:

Well ID B-93
Well diameter 2 in
Well Total Depth 29 ft
Screen Length 10 ft
Depth to Water 6.57 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1971222 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9.72 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:40:09	300.03	19.35	4.63	846.72	2.25	7.34	0.40	388.32
Last 5	09:45:09	600.00	19.24	4.67	860.76	1.82	7.36	0.34	423.21
Last 5	09:50:09	900.01	19.19	4.67	851.93	3.36	7.38	0.33	446.58
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.11	0.03	14.04			-0.06	34.89
Variance 2			-0.05	0.01	-8.83			-0.01	23.37

Notes

Started purging at 0935

Grab Samples

APPENDIX A

**Well Inspection Form
September 2020**

**WELL INSPECTION FORM
PLANT MCDONOUGH
SEPTEMBER 2020**

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. 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	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	↑	S	S	S	S	Poor recharge, requires purge dry and returning to sample
DGWA-70A	↑	S	S	S	S	S
DGWA-71	↑	S	S	S	S	S
DGWC-2	↓	S	S	S	S	S
DGWC-4	↓	S	S	S	S	S
DGWC-5	↓	S	S	S	S	S
DGWC-8	↓	S	S	S	S	S
DGWC-9	↓	S	S	S	S	S
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	S	S	S
DGWC-23	↓	S	S	S	S	S
DGWC-37	↓	S	S	S	S	S
DGWC-38	↓	S	S	Bollard knocked down	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	↓	S	S	S	S	S
DGWC-68A	↓	S	S	S	S	S
DGWC-69	↓	S	S	S	S	S

**WELL INSPECTION FORM
PLANT MCDONOUGH
SEPTEMBER 2020**

Well-ID	POSITION	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage	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. 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	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
	↑ or ↓	(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
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	↓	S	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	S	S	S	S
B-63	↓	S	Needs washers	S	S	S
B-64	↓	Requires traffic control	S	S	S	S
B-65	↓	Not labeled	S	S	S	S
B-66	↓	S	S	S	S	S
B-68	↓	S	S	S	S	S
B-76	↓	S	S	S	S	S

**WELL INSPECTION FORM
PLANT MCDONOUGH
SEPTEMBER 2020**

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. 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	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
B-77	↓	S	S	S	S	S
B-78	↓	S	S	S	S	S
B-79	↓	S	S	S	S	S
B-80	↓	S	S	S	S	S
B-81	↓	S	S	S	S	S
B-82	↓	S	S	S	S	S
B-83	↓	S	S	S	S	S
B-84	↓	Not labeled	S	S	S	S
B-85	↓	S	S	S	S	S
B-86	↓	S	S	S	S	S
B-87	↓	S	S	S	S	S
B-88	↓	S	S	S	S	S
B-89	↓	S	S	S	S	S
B-90	↓	Requires traffic control	S	S	S	S
B-91	↓	Requires traffic control	Annulus flooded, needs washers	S	S	S
B-92	↓	Requires traffic control	S	S	S	S
B-93	↓	Requires traffic control	S	S	S	S
B-94	↓	Requires traffic control	S	S	S	S
B-95	↓	Requires traffic control	S	S	S	S
B-96	↓	Requires traffic control	S	S	S	S
B-97	↓	Requires traffic control	S	S	S	S
B-98	↓	Requires traffic control	S	S	S	S
B-99	↓	S	S	S	S	S
B-100	↓	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

NOTES:
IW = Interstitial Well

APPENDIX A

**Field Data Forms
March and April 2021**

Product Name: Low-Flow System

Date: 2021-03-12 12:43:38

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 31 ft

Pump placement from TOC 31 ft

Well Information:

Well ID DGWA-53
Well diameter 2 in
Well Total Depth 36.89 ft
Screen Length 10 ft
Depth to Water 13.70 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.2283661 L
Calculated Sample Rate 60 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:28:32	60.07	25.66	6.38	195.64	8.60	13.70	0.91	53.73
Last 5									
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.00	0.00	0.00			0.00	0.00
Variance 2			0.00	0.00	0.00			0.00	0.00

Notes

See Purge forms for vol. removed

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-01 13:26:06

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 57 ft

Pump placement from TOC 57 ft

Well Information:

Well ID DGWA-70A
Well diameter 2 in
Well Total Depth 62.41 ft
Screen Length 10 ft
Depth to Water 38.60 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5394151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:07:01	300.07	17.46	5.75	52.68	0.86	39.10	3.52	216.69
Last 5	13:12:01	600.02	17.41	5.53	51.30	0.56	39.10	3.56	265.63
Last 5	13:17:01	900.02	17.41	5.45	50.98	0.53	39.10	3.68	310.29
Last 5	13:22:01	1200.02	17.41	5.43	51.09	0.75	39.10	3.86	371.79
Last 5									
Variance 0			-0.05	-0.22	-1.38			0.04	48.95
Variance 1			0.00	-0.08	-0.32			0.12	44.66
Variance 2			-0.00	-0.02	0.12			0.18	61.49

Notes

Started purging at 1301
Stopped purging and began sampling at 1321

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-01 15:19:53

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 42 ft

Pump placement from TOC 42 ft

Well Information:

Well ID DGWA-71
Well diameter 2 in
Well Total Depth 47.71 ft
Screen Length 10 ft
Depth to Water 27.29 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4724638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.38 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:53:06	300.04	17.93	6.00	73.22	2.45	27.57	0.61	-13.63
Last 5	14:58:06	600.02	17.81	5.92	73.17	1.46	27.57	0.44	18.95
Last 5	15:08:06	1200.01	17.72	5.80	76.85	0.68	27.57	0.36	69.63
Last 5	15:13:06	1500.01	17.63	5.80	78.61	0.38	27.57	0.34	83.43
Last 5	15:18:06	1800.01	17.58	5.80	79.57	0.28	27.57	0.33	94.14
Variance 0			-0.09	-0.11	3.68			-0.08	50.68
Variance 1			-0.09	-0.01	1.76			-0.03	13.80
Variance 2			-0.04	0.01	0.95			-0.01	10.71

Notes

Started purging at 1448
Stopped purging and began sampling at 1518

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-02 10:40:34

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 47 ft

Pump placement from TOC 47 ft

Well Information:

Well ID DGWC-2
Well diameter 2 in
Well Total Depth 52.42 ft
Screen Length 10 ft
Depth to Water 30.06 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.4247809 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.6 in
Total Volume Pumped 12.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:18:10	2099.99	15.30	6.00	394.48	8.04	30.61	0.39	157.62
Last 5	10:23:10	2399.98	15.21	6.00	394.79	4.83	30.61	0.32	157.20
Last 5	10:28:10	2699.98	15.26	6.00	395.59	4.86	30.61	0.25	165.84
Last 5	10:33:10	2999.97	15.30	6.00	395.18	4.11	30.61	0.22	167.16
Last 5	10:38:10	3299.97	15.27	6.01	394.48	3.70	30.61	0.20	168.59
Variance 0			0.04	-0.00	0.80			-0.07	8.64
Variance 1			0.05	0.00	-0.41			-0.03	1.32
Variance 2			-0.03	0.00	-0.71			-0.02	1.43

Notes

FB-1 here. Check purge form for flow rate changes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-01 16:50:34

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 42 ft

Pump placement from TOC 42 ft

Well Information:

Well ID DGWC-4
Well diameter 2 in
Well Total Depth 47.02 ft
Screen Length 10 ft
Depth to Water 22.97 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4024638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.28 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:20:02	300.09	16.96	5.83	1743.90	14.97	23.40	0.24	171.54
Last 5	16:25:02	600.01	16.99	5.81	1760.80	7.58	23.40	0.17	156.35
Last 5	16:30:02	900.00	16.87	5.82	1760.98	6.16	23.40	0.14	146.67
Last 5	16:35:02	1199.99	16.79	5.82	1753.55	4.32	23.41	0.14	138.93
Last 5	16:40:02	1499.98	16.78	5.82	1762.53	3.18	23.41	0.13	132.60
Variance 0			-0.12	0.01	0.18			-0.03	-9.68
Variance 1			-0.08	0.00	-7.43			-0.00	-7.74
Variance 2			-0.01	-0.00	8.98			-0.01	-6.33

Notes

Internal pump volume = 0mL

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-02 10:27:25

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 28 ft

Pump placement from TOC 28 ft

Well Information:

Well ID DGWC-5
Well diameter 2 in
Well Total Depth 33.23 ft
Screen Length 10 ft
Depth to Water 10.13 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.84 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:55:28	300.10	14.98	4.94	925.14	3.59	10.95	0.65	486.77
Last 5	10:00:28	600.01	15.42	4.97	946.68	2.01	11.05	0.46	499.93
Last 5	10:05:28	900.00	15.44	4.99	941.77	1.60	11.14	0.41	502.83
Last 5	10:10:28	1200.00	15.66	5.00	944.73	1.83	11.19	0.40	504.27
Last 5	10:15:28	1499.99	15.62	5.00	952.58	1.13	11.20	0.37	505.25
Variance 0			0.03	0.02	-4.91			-0.04	2.90
Variance 1			0.22	0.02	2.96			-0.01	1.44
Variance 2			-0.04	-0.01	7.85			-0.03	0.98

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-02 16:24:33

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 46 ft

Pump placement from TOC 46 ft

Well Information:

Well ID DGWC-8
Well diameter 2 in
Well Total Depth 51.33 ft
Screen Length 10 ft
Depth to Water 34.35 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4203174 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.04 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:55:05	300.05	17.10	5.32	424.32	20.00	34.52	0.88	105.23
Last 5	16:00:05	600.01	17.50	5.29	429.96	35.50	34.50	0.71	96.76
Last 5	16:05:05	900.00	17.41	5.26	439.29	22.50	34.55	0.58	91.51
Last 5	16:10:05	1199.99	17.40	5.25	440.13	13.60	34.52	0.49	86.93
Last 5	16:15:05	1499.99	17.41	5.25	442.51	6.60	34.52	0.42	82.29
Variance 0			-0.09	-0.03	9.33			-0.13	-5.26
Variance 1			-0.01	-0.00	0.84			-0.09	-4.57
Variance 2			0.01	-0.00	2.38			-0.06	-4.65

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-02 15:24:47

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 30 ft

Pump placement from TOC 30 ft

Well Information:

Well ID DGWC-9
Well diameter 2 in
Well Total Depth 33.73 ft
Screen Length 10 ft
Depth to Water 27.28 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13.56 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:02:51	2401.98	14.75	3.99	694.48	9.07	28.45	4.14	366.88
Last 5	15:07:51	2701.98	14.94	3.99	692.07	5.29	28.41	4.02	367.91
Last 5	15:12:51	3001.97	15.12	3.99	695.25	3.96	28.41	3.82	376.23
Last 5	15:17:51	3301.97	15.07	3.99	693.84	4.22	28.41	3.78	382.14
Last 5	15:22:51	3601.96	14.85	3.99	697.56	2.17	28.41	3.87	389.12
Variance 0			0.18	0.00	3.18			-0.20	8.32
Variance 1			-0.05	-0.00	-1.41			-0.04	5.91
Variance 2			-0.22	0.00	3.72			0.10	6.99

Notes

Required 3 volume purge, then decreased flow rate to decrease NTU once 3 well volumes purged

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-04 13:22:31

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 44 ft

Pump placement from TOC 44 ft

Well Information:

Well ID DGWC-10
Well diameter 2 in
Well Total Depth 47.8 ft
Screen Length 10 ft
Depth to Water 27.8 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.2863906 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.4 in
Total Volume Pumped 5.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:00:22	1499.99	18.60	5.33	609.77	7.07	28.00	6.06	808.60
Last 5	13:05:22	1799.99	18.53	5.32	605.58	5.66	28.00	5.87	770.24
Last 5	13:10:22	2099.99	18.61	5.31	601.85	4.38	28.00	5.53	739.10
Last 5	13:15:22	2399.98	18.66	5.29	599.97	3.38	28.00	5.43	724.50
Last 5	13:20:22	2699.98	18.50	5.27	598.70	1.98	28.00	5.65	712.42
Variance 0			0.08	-0.02	-3.74			-0.33	-31.14
Variance 1			0.05	-0.02	-1.88			-0.11	-14.60
Variance 2			-0.16	-0.02	-1.26			0.22	-12.08

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-02 16:23:48

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 47 ft

Pump placement from TOC 47 ft

Well Information:

Well ID DGWC-11
Well diameter 2 in
Well Total Depth 51.72 ft
Screen Length 10 ft
Depth to Water 11.77 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2997809 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.04 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:11:43	300.02	13.83	5.57	668.14	1.31	12.30	0.44	309.75
Last 5	16:16:43	600.01	14.67	5.58	668.02	0.43	12.42	0.26	301.63
Last 5	16:21:43	900.01	14.67	5.59	670.29	0.26	12.44	0.21	302.94
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.84	0.01	-0.12			-0.18	-8.12
Variance 2			0.00	0.01	2.27			-0.05	1.31

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-03 12:22:05

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 22 ft

Pump placement from TOC 22 ft

Well Information:

Well ID DGWC-12
Well diameter 2 in
Well Total Depth 28.24 ft
Screen Length 10 ft
Depth to Water 8.84 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1881953 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.44 in
Total Volume Pumped 31.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:00:51	6905.94	16.67	6.12	566.17	5.83	9.21	0.06	707.60
Last 5	12:05:51	7205.91	16.47	6.13	564.66	5.28	9.21	0.06	741.20
Last 5	12:10:51	7505.89	16.63	6.14	557.27	4.49	9.21	0.06	754.10
Last 5	12:15:51	7805.89	16.47	6.13	562.04	4.98	9.21	0.06	767.90
Last 5	12:20:51	8105.88	16.51	6.13	565.98	4.37	9.21	0.09	785.17
Variance 0			0.16	0.01	-7.38			0.01	12.90
Variance 1			-0.16	-0.01	4.77			-0.00	13.79
Variance 2			0.04	-0.00	3.93			0.03	17.28

Notes

Check purge form for volume calculation

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-02 15:00:10

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Bladder
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 41 ft

Pump placement from TOC 41 ft

Well Information:

Well ID DGWC-13
Well diameter 2 in
Well Total Depth 46.70 ft
Screen Length 10 ft
Depth to Water 34.30 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3980004 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.4 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:22:17	300.06	18.35	5.74	433.04	0.96	34.48	4.92	148.87
Last 5	14:27:17	600.01	18.53	5.69	434.72	0.60	34.60	4.69	138.85
Last 5	14:32:17	900.00	18.57	5.69	435.26	0.64	34.60	4.58	131.62
Last 5	14:37:17	1200.00	18.56	5.68	434.51	0.33	34.60	4.49	126.50
Last 5									
Variance 0			0.18	-0.05	1.68			-0.22	-10.02
Variance 1			0.04	-0.01	0.54			-0.11	-7.23
Variance 2			-0.01	-0.01	-0.74			-0.09	-5.11

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-02 11:52:51

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 33 ft

Pump placement from TOC 33 ft

Well Information:

Well ID DGWC-14
Well diameter 2 in
Well Total Depth 37.97 ft
Screen Length 10 ft
Depth to Water 19.77 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.237293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.16 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:29:31	300.04	16.42	5.70	159.59	0.66	19.96	4.43	188.33
Last 5	11:34:31	600.01	16.60	5.71	158.08	2.78	19.95	4.38	165.24
Last 5	11:39:31	900.00	16.74	5.70	157.87	2.97	19.95	4.37	151.78
Last 5	11:44:30	1199.99	16.83	5.69	157.53	3.26	19.95	4.41	144.12
Last 5									
Variance 0			0.18	0.00	-1.51			-0.06	-23.10
Variance 1			0.13	-0.00	-0.21			-0.01	-13.46
Variance 2			0.09	-0.01	-0.34			0.04	-7.66

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-02 10:24:34

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 65 ft

Pump placement from TOC 65 ft

Well Information:

Well ID DGWC-15
Well diameter 2 in
Well Total Depth 70.73 ft
Screen Length 10 ft
Depth to Water 39.47 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5751225 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 20.76 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:52:07	1200.00	18.00	5.91	432.00	0.77	41.20	1.37	221.92
Last 5	10:02:07	1800.01	17.89	5.82	434.54	0.84	41.20	0.95	211.91
Last 5	10:12:08	2401.01	17.59	5.81	436.97	0.57	41.20	0.67	179.32
Last 5	10:17:08	2701.00	17.86	5.81	436.94	0.79	41.20	0.57	176.88
Last 5	10:22:08	3001.00	17.65	5.81	436.57	0.45	41.20	0.49	173.62
Variance 0			-0.30	-0.01	2.43			-0.28	-32.59
Variance 1			0.27	-0.00	-0.03			-0.10	-2.45
Variance 2			-0.21	0.00	-0.37			-0.08	-3.26

Notes

Started purging at 0932

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-03 16:57:06

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 43 ft

Pump placement from TOC 43 ft

Well Information:

Well ID DGWC-17
Well diameter 2 in
Well Total Depth 47.95 ft
Screen Length 10 ft
Depth to Water 32.77 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.4069272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.76 in
Total Volume Pumped 29.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:36:04	6900.90	18.12	5.23	597.24	6.10	33.00	3.80	163.24
Last 5	16:41:04	7200.90	17.94	5.23	596.72	6.04	33.00	3.79	153.14
Last 5	16:46:04	7500.89	17.91	5.23	597.21	4.85	33.00	3.76	146.20
Last 5	16:51:04	7800.89	17.92	5.23	597.17	4.87	33.00	3.64	142.10
Last 5	16:56:04	8100.88	17.89	5.23	596.47	4.73	33.00	3.67	140.58
Variance 0			-0.03	-0.00	0.48			-0.02	-6.94
Variance 1			0.01	-0.01	-0.03			-0.12	-4.10
Variance 2			-0.02	0.00	-0.70			0.03	-1.53

Notes

See purge form for volume calculations

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-02 13:32:12

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 38 ft

Pump placement from TOC 38 ft

Well Information:

Well ID DGWC-19
Well diameter 2 in
Well Total Depth 43.15 ft
Screen Length 10 ft
Depth to Water 24.33 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2596101 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.92 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:10:18	1800.01	17.23	4.82	747.09	1.37	24.49	1.07	522.56
Last 5	13:15:18	2100.01	17.01	4.83	737.76	0.93	24.49	0.94	523.20
Last 5	13:20:18	2400.00	16.84	4.83	766.96	0.78	24.49	0.75	523.47
Last 5	13:25:18	2700.00	17.09	4.84	765.42	0.38	24.49	0.67	526.10
Last 5	13:30:18	3000.00	16.94	4.84	767.80	0.82	24.49	0.55	524.79
Variance 0			-0.17	0.01	29.19			-0.19	0.27
Variance 1			0.25	0.00	-1.54			-0.08	2.63
Variance 2			-0.15	0.01	2.38			-0.12	-1.31

Notes

Started purging at 1240

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-02 16:16:23

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 597519
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 38 ft

Pump placement from TOC 38 ft

Well Information:

Well ID DGWC-20
Well diameter 2 in
Well Total Depth 43.4 ft
Screen Length 10 ft
Depth to Water 21.60 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2596101 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.36 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:38:20	3599.98	17.81	4.48	970.00	2.34	22.63	1.24	368.48
Last 5	15:58:21	4800.98	17.94	4.45	984.02	2.45	22.63	0.69	394.06
Last 5	16:03:21	5100.98	17.95	4.45	980.16	2.34	22.63	0.67	395.29
Last 5	16:08:21	5400.98	17.85	4.46	975.88	2.26	22.63	0.69	397.78
Last 5	16:13:21	5700.97	17.85	4.45	982.62	2.30	22.63	0.65	402.95
Variance 0			0.00	0.00	-3.86			-0.02	1.23
Variance 1			-0.09	0.01	-4.28			0.02	2.50
Variance 2			-0.01	-0.02	6.74			-0.04	5.16

Notes

Started purging at 1438

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-03 12:58:50

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 67 ft

Pump placement from TOC 67 ft

Well Information:

Well ID DGWC-21
Well diameter 2 in
Well Total Depth 72.55 ft
Screen Length 10 ft
Depth to Water 15.48 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3890494 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.24 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	12:46:49	300.09	20.12	5.71	663.14	0.69	15.75	0.42	205.51
Last 5	12:51:49	600.02	19.77	5.64	669.04	0.74	15.75	0.27	221.92
Last 5	12:56:49	900.02	19.64	5.63	671.01	0.54	15.75	0.22	252.28
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.35	-0.07	5.90			-0.15	16.41
Variance 2			-0.13	-0.01	1.97			-0.05	30.35

Notes

Started purging at 1241
Stopped purging and began sampling

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-03 14:29:57

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 58 ft

Pump placement from TOC 58 ft

Well Information:

Well ID DGWC-22
Well diameter 2 in
Well Total Depth 63.45 ft
Screen Length 10 ft
Depth to Water 18.80 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.4 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:16:57	300.03	20.28	5.75	649.12	0.83	19.00	0.62	391.67
Last 5	14:21:57	600.02	19.28	5.77	661.92	0.61	19.00	0.31	442.81
Last 5	14:26:57	900.02	19.18	5.71	662.71	0.71	19.00	0.25	436.14
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-1.00	0.02	12.79			-0.31	51.14
Variance 2			-0.09	-0.06	0.79			-0.06	-6.67

Notes

Started purging at 1411
Stopped purging and began sampling at 1426

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-03 16:25:14

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 58 ft

Pump placement from TOC 58 ft

Well Information:

Well ID DGWC-23
Well diameter 2 in
Well Total Depth 63.26 ft
Screen Length 10 ft
Depth to Water 17.38 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 47.64 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	16:02:43	1800.02	17.31	5.87	634.14	0.55	20.90	0.90	524.70
Last 5	16:07:43	2100.02	17.28	5.87	633.68	0.54	21.05	0.75	521.56
Last 5	16:12:43	2400.66	17.29	5.86	630.27	0.45	21.15	0.62	519.36
Last 5	16:17:47	2704.66	17.29	5.86	630.59	0.48	21.24	0.59	520.08
Last 5	16:22:50	3007.66	17.27	5.85	628.31	0.43	21.35	0.53	516.43
Variance 0			0.01	-0.01	-3.41			-0.14	-2.20
Variance 1			0.00	-0.00	0.32			-0.03	0.72
Variance 2			-0.02	-0.01	-2.27			-0.06	-3.65

Notes

Started purging at 1532
Stopped purging and began sampling

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-03 14:41:18

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Bladder
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 47 ft

Pump placement from TOC 47 ft

Well Information:

Well ID DGWC-42
Well diameter 2 in
Well Total Depth 52.49 ft
Screen Length 10 ft
Depth to Water 29.49 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4247809 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 21.72 in
Total Volume Pumped 10.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:49:00	900.00	19.06	5.33	794.40	19.80	31.24	0.23	107.24
Last 5	13:54:00	1199.99	19.03	5.34	794.75	13.70	31.25	0.18	94.81
Last 5	13:59:00	1499.99	19.01	5.32	794.36	12.94	31.27	0.12	85.02
Last 5	14:04:00	1799.98	19.05	5.31	792.43	23.80	31.30	0.10	77.62
Last 5	14:09:00	2099.97	19.01	5.30	791.59	6.67	31.30	0.09	71.34
Variance 0			-0.02	-0.01	-0.39			-0.06	-9.79
Variance 1			0.03	-0.01	-1.93			-0.02	-7.41
Variance 2			-0.03	-0.01	-0.84			-0.01	-6.28

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-03 12:12:59

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 27 ft

Pump placement from TOC 27 ft

Well Information:

Well ID DGWC-47
Well diameter 2 in
Well Total Depth 31.93 ft
Screen Length 10 ft
Depth to Water 16.13 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2105124 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 23.64 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:25:47	300.03	17.04	3.90	375.96	1.43	17.45	0.30	432.16
Last 5	11:30:46	600.01	16.56	3.91	377.79	1.35	17.80	0.24	426.22
Last 5	11:35:46	900.00	16.47	3.93	375.24	1.64	17.94	0.23	408.93
Last 5	11:40:46	1200.00	16.65	3.95	375.01	1.57	18.05	0.22	397.05
Last 5	11:45:46	1499.99	16.63	3.98	374.13	0.88	18.10	0.16	380.74
Variance 0			-0.09	0.02	-2.55			-0.01	-17.29
Variance 1			0.18	0.02	-0.23			-0.01	-11.88
Variance 2			-0.02	0.02	-0.88			-0.06	-16.32

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-03 10:28:14

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 28 ft

Pump placement from TOC 28 ft

Well Information:

Well ID DGWC-48
Well diameter 2 in
Well Total Depth 33.49 ft
Screen Length 10 ft
Depth to Water 13.77 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 29.16 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:47:28	300.10	17.81	4.11	717.95	10.82	15.28	0.17	313.91
Last 5	09:52:28	600.01	17.92	4.10	720.32	9.61	15.74	0.17	325.64
Last 5	09:57:27	900.00	18.03	4.10	720.50	4.87	16.02	0.14	324.68
Last 5	10:02:27	1199.99	17.97	4.12	723.32	4.34	16.15	0.12	320.27
Last 5	10:07:27	1499.99	17.95	4.14	730.41	3.77	16.20	0.12	316.27
Variance 0			0.11	0.01	0.18			-0.03	-0.97
Variance 1			-0.06	0.02	2.82			-0.02	-4.40
Variance 2			-0.03	0.01	7.09			-0.00	-4.00

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-03 16:05:20

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 40 ft

Pump placement from TOC 40 ft

Well Information:

Well ID B-56
Well diameter 2 in
Well Total Depth 45.0 ft
Screen Length 10 ft
Depth to Water 26.87 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3935369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:40:08	300.06	18.48	4.88	498.13	9.29	28.42	0.20	38.75
Last 5	15:45:08	600.00	18.21	4.77	513.81	4.09	28.67	0.14	37.95
Last 5	15:50:08	900.00	18.17	4.73	523.33	4.24	28.79	0.12	38.58
Last 5	15:55:08	1199.99	18.12	4.71	528.96	1.93	28.79	0.10	38.15
Last 5									
Variance 0			-0.27	-0.11	15.68			-0.06	-0.80
Variance 1			-0.04	-0.05	9.52			-0.02	0.63
Variance 2			-0.04	-0.02	5.63			-0.01	-0.43

Notes

Calculate drawdown

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-12 14:30:26

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name Plant McDonough
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 553835
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 34 ft

Pump placement from TOC 34 ft

Well Information:

Well ID B-62
Well diameter 2 in
Well Total Depth 39.62ft
Screen Length 10 ft
Depth to Water 15.36 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.22278685 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.88 in
Total Volume Pumped 13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:07:26	2700.01	17.65	6.45	280.90	15.5	15.6	0.39	87.5
Last 5	14:12:33	3000.00	17.51	6.40	275.60	9.78	15.6	0.37	66.5
Last 5	14:17:39	3299.99	17.48	6.38	278.50	5.99	15.6	0.33	30.2
Last 5	14:22:34	3599.99	17.43	6.35	277.60	5.02	15.6	0.29	13.5
Last 5	14:27:36	3899.98	17.35	6.34	276.40	3.98	15.6	0.26	1.30
Variance 0			-0.03	-0.02	2.90			-0.05	-36.3
Variance 1			-0.05	-0.03	-0.90			0.03	-16.7
Variance 2			-0.08	-0.01	-1.20			-0.06	-12.2

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-04 12:35:52

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 38 ft

Pump placement from TOC 38 ft

Well Information:

Well ID B-77
Well diameter 2 in
Well Total Depth 43.40 ft
Screen Length 10 ft
Depth to Water 28.23 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.3846101 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 32.04 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:07:03	300.05	20.13	6.35	323.92	7.06	29.93	0.17	-64.70
Last 5	12:12:03	600.01	20.03	6.36	325.41	5.41	30.70	0.12	-69.22
Last 5	12:17:03	900.00	19.97	6.36	326.20	5.53	30.90	0.11	-68.95
Last 5	12:22:03	1199.99	19.86	6.33	314.07	4.74	30.90	0.10	-64.66
Last 5									
Variance 0			-0.10	0.01	1.49			-0.06	-4.52
Variance 1			-0.06	-0.01	0.79			-0.01	0.27
Variance 2			-0.11	-0.03	-12.12			-0.01	4.29

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-04 15:07:56

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 44 ft

Pump placement from TOC 44 ft

Well Information:

Well ID B-83
Well diameter 2 in
Well Total Depth 48.90 ft
Screen Length 10 ft
Depth to Water 30.35 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4113906 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.8 in
Total Volume Pumped 13.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:37:07	1499.99	20.46	5.62	374.93	47.20	30.53	0.50	83.81
Last 5	14:42:07	1799.97	20.44	5.61	377.95	34.10	30.50	0.50	82.65
Last 5	14:47:07	2099.97	20.40	5.60	380.89	19.50	30.50	0.53	81.45
Last 5	14:52:07	2399.99	20.42	5.60	378.52	9.48	30.48	0.50	79.86
Last 5	14:57:07	2699.97	20.43	5.60	384.11	4.70	30.50	0.52	79.26
Variance 0			-0.04	-0.01	2.93			0.02	-1.21
Variance 1			0.02	0.01	-2.37			-0.02	-1.59
Variance 2			0.01	-0.01	5.60			0.02	-0.60

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-05 11:38:23

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 70 ft

Pump placement from TOC 70 ft

Well Information:

Well ID B-88
Well diameter 2 in
Well Total Depth 75.06 ft
Screen Length 10 ft
Depth to Water 38.13 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.5274396 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.68 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:05:20	600.02	17.32	5.39	1047.83	39.30	38.30	0.27	130.69
Last 5	11:10:20	900.00	17.27	5.26	1080.78	26.10	38.23	0.22	138.30
Last 5	11:15:20	1199.99	17.54	5.19	1092.85	13.90	38.25	0.19	134.81
Last 5	11:20:20	1499.98	17.58	5.21	1084.50	8.10	38.27	0.17	128.79
Last 5	11:25:20	1799.98	17.75	5.21	1081.98	4.50	38.27	0.15	123.88
Variance 0			0.27	-0.06	12.07			-0.03	-3.49
Variance 1			0.04	0.01	-8.35			-0.02	-6.01
Variance 2			0.16	0.01	-2.52			-0.01	-4.91

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 15:04:38

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 24 ft

Pump placement from TOC 24 ft

Well Information:

Well ID B-93
Well diameter 2 in
Well Total Depth 29.3 ft
Screen Length 10 ft
Depth to Water 8.42 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.1971222 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.4 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:32:14	600.01	20.57	4.73	1022.05	3.73	9.10	0.44	461.80
Last 5	14:37:14	900.00	20.84	4.72	1027.67	3.65	9.11	0.42	507.91
Last 5	14:42:14	1200.00	21.09	4.73	1024.66	3.65	9.12	0.41	515.31
Last 5	14:47:14	1499.99	21.09	4.72	1030.03	2.20	9.12	0.39	518.43
Last 5	14:52:14	1800.01	21.23	4.73	1024.81	1.38	9.12	0.37	520.64
Variance 0			0.25	0.00	-3.01			-0.02	7.40
Variance 1			0.00	-0.00	5.37			-0.01	3.12
Variance 2			0.14	0.00	-5.23			-0.02	2.22

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-05 10:27:35

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 72 ft

Pump placement from TOC 72 ft

Well Information:

Well ID B-101D
Well diameter 2 in
Well Total Depth 77.8 ft
Screen Length 10 ft
Depth to Water 31.38 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5363665 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 49.92 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:05:18	2099.99	14.81	6.54	632.60	2.03	34.85	0.40	140.13
Last 5	10:10:18	2399.99	14.85	6.54	634.59	1.76	35.02	0.39	155.40
Last 5	10:15:18	2699.98	15.08	6.54	633.81	1.92	35.25	0.35	190.70
Last 5	10:20:18	2999.98	15.30	6.53	637.68	1.75	35.40	0.32	225.70
Last 5	10:25:18	3299.97	15.52	6.52	636.86	1.85	35.54	0.29	249.82
Variance 0			0.23	-0.00	-0.78			-0.04	35.30
Variance 1			0.22	-0.02	3.87			-0.03	35.00
Variance 2			0.22	-0.01	-0.83			-0.03	24.12

Notes

See purge form for volume calculation

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-04 15:09:43

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter 0.170 in
Tubing Length 82 ft

Pump placement from TOC 82 ft

Well Information:

Well ID B-102D
Well diameter 2 in
Well Total Depth 87.4 ft
Screen Length 9 ft
Depth to Water 30.84 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5810007 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11.52 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:52:15	300.02	18.45	5.66	568.65	2.34	31.69	0.99	121.47
Last 5	14:57:15	600.01	17.40	5.47	592.01	0.82	31.69	0.43	82.26
Last 5	15:02:15	900.01	17.18	5.43	597.51	0.74	31.75	0.36	142.32
Last 5	15:07:15	1200.00	17.19	5.43	596.20	0.41	31.80	0.31	162.82
Last 5									
Variance 0			-1.05	-0.19	23.36			-0.57	-39.21
Variance 1			-0.21	-0.04	5.50			-0.07	60.06
Variance 2			0.01	-0.01	-1.32			-0.05	20.50

Notes

DUP-2 here

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-04 14:45:26

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name Plant McDonough
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 56 ft

Pump placement from TOC 56 ft

Well Information:

Well ID B-104D
Well diameter 2 in
Well Total Depth 60.0 ft
Screen Length 10 ft
Depth to Water 6.38 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.2485314 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 33.48 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:15:17	600.01	18.46	6.45	1015.3	5.45	7.90	0.64	12.6
Last 5	14:20:17	900.00	18.65	6.30	1018.3	4.56	8.64	0.35	5.60
Last 5	14:25:23	1200.00	18.68	6.28	1016.5	3.25	9.00	0.29	1.30
Last 5	14:35:43	1499.99	18.78	6.27	1025.4	2.56	9.14	0.34	-5.30
Last 5	14:40:32	1799.98	18.89	6.27	1019.6	1.42	9.17	0.28	-7.80
Variance 0			0.03	-0.02	-1.80			-0.05	-3.70
Variance 1			0.10	-0.01	8.90			0.03	-4.00
Variance 2			0.09	0.00	-5.80			-0.06	-2.50

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-04 10:16:09

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Bladder
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 74 ft

Pump placement from TOC 74 ft

Well Information:

Well ID B-106D
Well diameter 2 in
Well Total Depth 79.4 ft
Screen Length 10 ft
Depth to Water 35.50 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.5452933 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.4 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:52:02	300.06	18.03	5.92	470.14	0.13	35.94	0.50	110.02
Last 5	09:57:02	600.01	17.95	5.87	472.30	0.91	35.95	0.42	105.56
Last 5	10:02:02	900.00	17.97	5.85	472.79	0.53	35.95	0.37	97.51
Last 5	10:07:02	1199.99	18.01	5.85	472.92	0.55	35.95	0.35	87.93
Last 5									
Variance 0			-0.08	-0.06	2.16			-0.09	-4.46
Variance 1			0.02	-0.01	0.49			-0.04	-8.05
Variance 2			0.04	-0.00	0.13			-0.03	-9.58

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-04 11:47:07

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 80 ft

Pump placement from TOC 80 ft

Well Information:

Well ID B-107D
Well diameter 2 in
Well Total Depth 85.5 ft
Screen Length 10 ft
Depth to Water 21.45 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.4470738 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:25:24	600.02	20.35	6.04	698.46	1.00	21.55	0.46	327.50
Last 5	11:30:24	900.02	20.39	6.04	700.61	0.77	21.55	0.36	321.05
Last 5	11:35:24	1200.02	20.39	6.03	701.15	0.56	21.55	0.32	309.46
Last 5	11:40:24	1500.02	20.48	6.01	703.54	0.59	21.55	0.30	313.66
Last 5	11:45:24	1800.02	20.60	5.97	704.65	0.53	21.55	0.27	267.95
Variance 0			0.00	-0.01	0.54			-0.05	-11.59
Variance 1			0.09	-0.02	2.39			-0.02	4.20
Variance 2			0.12	-0.04	1.11			-0.02	-45.71

Notes

Started at 1115
Stopped purging and began sampling at 1145

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-04 10:10:39

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 74 ft

Pump placement from TOC 74 ft

Well Information:

Well ID B-108D
Well diameter 2 in
Well Total Depth 79 ft
Screen Length 10 ft
Depth to Water 20.15 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.4202933 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.68 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:48:41	1500.51	19.35	5.86	756.64	0.37	20.54	0.32	221.60
Last 5	09:53:41	1800.51	19.32	5.86	698.32	0.58	20.54	0.30	247.15
Last 5	09:58:41	2100.51	19.45	5.87	757.51	0.32	20.54	0.28	281.39
Last 5	10:03:41	2400.51	19.24	5.88	755.17	0.51	20.54	0.34	322.43
Last 5	10:08:41	2700.51	19.18	5.88	755.69	0.87	20.54	0.35	358.90
Variance 0			0.12	0.01	59.19			-0.02	34.25
Variance 1			-0.21	0.01	-2.34			0.06	41.03
Variance 2			-0.06	0.01	0.52			0.01	36.47

Notes

Started purging at 0923
Stopped purging and began sampling at 1008

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-08 13:09:25

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 97 ft

Pump placement from TOC 97 ft

Well Information:

Well ID B-109D
Well diameter 2 in
Well Total Depth 102.12 ft
Screen Length 10 ft
Depth to Water 37.54 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.647952 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 45.48 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:38:29	600.01	18.61	6.59	432.04	3.99	40.11	0.40	-69.95
Last 5	12:43:29	900.00	18.62	6.58	429.21	3.61	41.05	0.30	-76.55
Last 5	12:48:29	1199.99	18.70	6.51	428.99	3.64	41.16	0.26	-75.57
Last 5	12:53:29	1499.98	18.87	6.45	427.02	2.50	41.26	0.24	-75.42
Last 5	12:58:29	1799.98	18.73	6.42	429.44	2.70	41.33	0.21	-75.31
Variance 0			0.08	-0.07	-0.22			-0.04	0.98
Variance 1			0.17	-0.06	-1.97			-0.02	0.15
Variance 2			-0.13	-0.04	2.42			-0.02	0.11

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-05 09:57:05

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis
Tubing Type poly
Tubing Diameter 0.170 in
Tubing Length 79 ft

Pump placement from TOC 79 ft

Well Information:

Well ID B-111D
Well diameter 2 in
Well Total Depth 84.2 ft
Screen Length 10 ft
Depth to Water 11.0 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.4426104 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9.36 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:40:05	300.03	16.92	6.60	898.64	1.70	11.40	0.56	39.05
Last 5	09:45:05	600.02	17.12	6.61	890.82	0.82	11.60	0.37	17.63
Last 5	09:50:05	900.02	17.18	6.65	889.62	1.27	11.71	0.31	-0.36
Last 5	09:55:05	1200.02	17.27	6.69	887.81	1.21	11.78	0.28	-13.63
Last 5									
Variance 0			0.20	0.01	-7.82			-0.19	-21.42
Variance 1			0.07	0.04	-1.20			-0.06	-17.98
Variance 2			0.09	0.04	-1.81			-0.03	-13.28

Notes

Started purging at 0935
Stopped purging and began sampling at 0955

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-01 12:13:36

Project Information:

Operator Name K. Minkara
Company Name Folder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter in
Tubing Length ft
Pump placement from TOC ft

Well Information:

Well ID SW-1
Well diameter in
Well Total Depth ft
Screen Length ft
Depth to Water ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.09 L
Calculated Sample Rate 45 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:12:52	45.05	14.44	6.79	205.82	11.80	--	7.20	208.12
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.00	0.00	0.00			0.00	0.00
Variance 2			0.00	0.00	0.00			0.00	0.00

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-01 12:53:58

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter in
Tubing Length ft
Pump placement from TOC ft

Well Information:

Well ID SW-2
Well diameter in
Well Total Depth ft
Screen Length 10 ft
Depth to Water ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.09 L
Calculated Sample Rate 45 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:52:50	45.03	14.70	7.36	265.60	--	--	9.20	232.28
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.00	0.00	0.00			0.00	0.00
Variance 2			0.00	0.00	0.00			0.00	0.00

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-01 13:09:48

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis
Tubing Type
Tubing Diameter in
Tubing Length ft
Pump placement from TOC ft

Well Information:

Well ID SW-3
Well diameter in
Well Total Depth ft
Screen Length ft
Depth to Water ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.09 L
Calculated Sample Rate 45 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:08:52	45.02	14.60	7.50	265.67	11.87	--	9.16	178.88
Last 5									
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.00	0.00	0.00			0.00	0.00
Variance 2			0.00	0.00	0.00			0.00	0.00

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-01 13:36:56

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 513028
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter in
Tubing Length ft
Pump placement from TOC ft

Well Information:

Well ID SW-4
Well diameter in
Well Total Depth ft
Screen Length ft
Depth to Water ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.09 L
Calculated Sample Rate 45 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:36:00	45.02	14.80	7.42	263.78	11.90	0.00	8.70	181.65
Last 5									
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.00	0.00	0.00			0.00	0.00
Variance 2			0.00	0.00	0.00			0.00	0.00

Notes

Grab Samples

Low-Flow Test Report:

Test Date / Time: 4/14/2021 10:19:14 AM

Project: McDonough

Operator Name: Erik Rheams

Location Name: B-115D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 73.73 ft Total Depth: 83.73 ft Initial Depth to Water: 19.52 ft	Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.75 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728550
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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 %	+/- 10	+/- 10	+/- 0.25	
4/14/2021 10:19 AM	00:00	4.31 pH	22.36 °C	596.36 µS/cm	0.70 mg/L	21.70 NTU	203.4 mV	19.52 ft	130.00 ml/min
4/14/2021 10:24 AM	05:00	4.36 pH	21.73 °C	605.07 µS/cm	0.51 mg/L	22.40 NTU	263.4 mV	20.96 ft	100.00 ml/min
4/14/2021 10:29 AM	10:00	4.40 pH	22.09 °C	603.74 µS/cm	0.35 mg/L	21.70 NTU	258.6 mV	21.14 ft	100.00 ml/min
4/14/2021 10:34 AM	15:00	4.52 pH	22.28 °C	602.06 µS/cm	0.32 mg/L	21.60 NTU	204.6 mV	21.22 ft	100.00 ml/min
4/14/2021 10:39 AM	20:00	4.56 pH	22.42 °C	601.54 µS/cm	0.28 mg/L	21.20 NTU	203.1 mV	21.27 ft	100.00 ml/min
4/14/2021 10:44 AM	25:00	4.58 pH	22.35 °C	601.33 µS/cm	0.24 mg/L	19.30 NTU	250.0 mV	21.33 ft	100.00 ml/min
4/14/2021 10:49 AM	30:00	4.61 pH	22.63 °C	602.07 µS/cm	0.23 mg/L	18.90 NTU	209.9 mV	21.34 ft	100.00 ml/min
4/14/2021 10:54 AM	35:00	4.63 pH	22.67 °C	598.93 µS/cm	0.20 mg/L	17.40 NTU	253.5 mV	21.34 ft	100.00 ml/min
4/14/2021 10:59 AM	40:00	4.64 pH	22.59 °C	601.56 µS/cm	0.20 mg/L	16.80 NTU	217.6 mV	21.35 ft	100.00 ml/min
4/14/2021 11:04 AM	45:00	4.66 pH	22.95 °C	599.09 µS/cm	0.19 mg/L	15.70 NTU	256.5 mV	21.35 ft	100.00 ml/min
4/14/2021 11:09 AM	50:00	4.67 pH	23.08 °C	600.12 µS/cm	0.18 mg/L	15.30 NTU	223.7 mV	21.35 ft	100.00 ml/min
4/14/2021 11:14 AM	55:00	4.68 pH	23.27 °C	601.36 µS/cm	0.18 mg/L	13.80 NTU	226.5 mV	21.34 ft	100.00 ml/min
4/14/2021 11:19 AM	01:00:00	4.69 pH	23.34 °C	601.99 µS/cm	0.17 mg/L	13.40 NTU	228.1 mV	21.34 ft	100.00 ml/min
4/14/2021 11:24 AM	01:05:00	4.69 pH	23.44 °C	600.02 µS/cm	0.16 mg/L	13.70 NTU	229.3 mV	21.34 ft	100.00 ml/min
4/14/2021 11:29 AM	01:10:00	4.70 pH	23.43 °C	599.89 µS/cm	0.15 mg/L	11.80 NTU	230.5 mV	21.34 ft	100.00 ml/min
4/14/2021 11:34 AM	01:15:00	4.70 pH	23.52 °C	603.03 µS/cm	0.15 mg/L	12.00 NTU	232.5 mV	21.34 ft	100.00 ml/min

4/14/2021 11:39 AM	01:20:00	4.70 pH	23.70 °C	601.73 µS/cm	0.15 mg/L	10.53 NTU	264.6 mV	21.34 ft	100.00 ml/min
4/14/2021 11:44 AM	01:25:00	4.71 pH	23.88 °C	599.99 µS/cm	0.14 mg/L	10.16 NTU	264.7 mV	21.34 ft	100.00 ml/min
4/14/2021 11:49 AM	01:30:00	4.72 pH	23.46 °C	597.35 µS/cm	0.13 mg/L	10.48 NTU	234.0 mV	21.34 ft	100.00 ml/min
4/14/2021 11:54 AM	01:35:00	4.71 pH	23.86 °C	600.84 µS/cm	0.14 mg/L	10.31 NTU	265.6 mV	21.34 ft	100.00 ml/min
4/14/2021 11:59 AM	01:40:00	4.72 pH	23.96 °C	598.32 µS/cm	0.13 mg/L	8.78 NTU	235.3 mV	21.36 ft	100.00 ml/min
4/14/2021 12:04 PM	01:45:00	4.72 pH	23.93 °C	598.96 µS/cm	0.13 mg/L	8.54 NTU	234.6 mV	21.36 ft	100.00 ml/min
4/14/2021 12:09 PM	01:50:00	4.73 pH	24.13 °C	598.47 µS/cm	0.13 mg/L	7.39 NTU	232.7 mV	21.36 ft	100.00 ml/min
4/14/2021 12:14 PM	01:55:00	4.74 pH	24.20 °C	598.13 µS/cm	0.12 mg/L	7.81 NTU	261.5 mV	21.36 ft	100.00 ml/min
4/14/2021 12:19 PM	02:00:00	4.76 pH	23.97 °C	594.20 µS/cm	0.12 mg/L	7.11 NTU	228.4 mV	21.37 ft	100.00 ml/min
4/14/2021 12:24 PM	02:05:00	4.75 pH	24.25 °C	598.66 µS/cm	0.13 mg/L	6.90 NTU	260.4 mV	21.37 ft	100.00 ml/min
4/14/2021 12:29 PM	02:10:00	4.77 pH	24.29 °C	592.49 µS/cm	0.13 mg/L	7.47 NTU	225.6 mV	21.37 ft	100.00 ml/min
4/14/2021 12:34 PM	02:15:00	4.77 pH	24.33 °C	593.20 µS/cm	0.13 mg/L	6.13 NTU	223.8 mV	21.37 ft	100.00 ml/min
4/14/2021 12:39 PM	02:20:00	4.78 pH	24.19 °C	593.94 µS/cm	0.13 mg/L	6.89 NTU	255.0 mV	21.37 ft	100.00 ml/min
4/14/2021 12:44 PM	02:25:00	4.79 pH	24.37 °C	591.73 µS/cm	0.13 mg/L	5.71 NTU	221.2 mV	21.29 ft	100.00 ml/min
4/14/2021 12:49 PM	02:30:00	4.79 pH	24.34 °C	590.11 µS/cm	0.12 mg/L	5.74 NTU	253.0 mV	21.27 ft	100.00 ml/min
4/14/2021 12:54 PM	02:35:00	4.80 pH	24.29 °C	590.00 µS/cm	0.13 mg/L	5.32 NTU	252.5 mV	21.27 ft	100.00 ml/min
4/14/2021 12:59 PM	02:40:00	4.81 pH	24.46 °C	586.34 µS/cm	0.12 mg/L	4.96 NTU	216.5 mV	21.27 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2021-04-13 17:16:47

Project Information:

Operator Name S. Brodie
Company Name Golder
Project Name Plant McDonough
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 87.5 ft

Pump placement from TOC 87.5 ft

Well Information:

Well ID B-116D
Well diameter 2 in
Well Total Depth 92.45 ft
Screen Length 10 ft
Depth to Water 41.32 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4805495 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.6 in
Total Volume Pumped 25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	16:51:25	8105.72	27.66	5.20	0.00	--	--	7.88	844.51
Last 5	16:56:28	8408.61	25.42	6.18	117.93	1.72	41.61	4.30	1005.70
Last 5	17:01:29	8709.61	18.89	6.04	126.80	1.52	41.65	4.35	1054.49
Last 5	17:06:29	9009.61	18.66	6.05	128.57	1.48	41.65	4.33	1067.43
Last 5	17:11:29	9309.61	18.52	6.06	128.41	1.55	41.60	4.31	1078.78
Variance 0			-6.53	-0.14	8.87			0.05	48.79
Variance 1			-0.23	0.01	1.77			-0.02	12.94
Variance 2			-0.14	0.01	-0.16			-0.02	11.35

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-04-14 12:28:49

Project Information:

Operator Name S. Brodie
Company Name Golder
Project Name Plant McDonough
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 72.5 ft

Pump placement from TOC 72.5 ft

Well Information:

Well ID B-117D
Well diameter 2 in
Well Total Depth 77.81 ft
Screen Length 10 ft
Depth to Water 27.90 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4135982 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15 in
Total Volume Pumped 14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	12:05:10	2700.26	18.70	6.06	152.50	2.03	29.13	1.62	693.12
Last 5	12:10:10	3000.26	18.52	6.06	150.14	1.59	29.18	1.51	654.36
Last 5	12:15:10	3300.26	18.54	6.05	147.46	1.44	29.14	1.43	632.60
Last 5	12:20:10	3600.26	18.54	6.05	147.94	1.45	29.20	1.37	613.38
Last 5	12:25:21	3911.26	18.48	6.06	149.90	1.49	29.15	1.32	604.89
Variance 0			0.01	-0.01	-2.68			-0.08	-21.76
Variance 1			0.00	-0.01	0.48			-0.06	-19.21
Variance 2			-0.06	0.01	1.95			-0.05	-8.50

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2021-04-13 11:37:03

Project Information:

Operator Name S. Brodie
Company Name Golder
Project Name Plant McDonough
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 73 ft

Pump placement from TOC 73 ft

Well Information:

Well ID B-118
Well diameter 2 in
Well Total Depth 78.25 ft
Screen Length 10 ft
Depth to Water 50.85 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4158299 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:07:57	1801.38	16.51	6.07	110.91	5.37	51.11	2.93	161.75
Last 5	11:12:57	2101.38	16.48	6.05	106.03	4.80	51.10	3.53	176.58
Last 5	11:17:57	2401.38	16.56	6.04	103.60	4.86	51.12	3.92	183.81
Last 5	11:22:57	2701.38	16.64	6.03	101.68	4.69	51.10	4.16	188.36
Last 5	11:27:57	3001.38	16.76	6.02	100.12	4.79	51.10	4.26	188.11
Variance 0			0.08	-0.00	-2.43			0.39	7.23
Variance 1			0.08	-0.01	-1.92			0.24	4.55
Variance 2			0.12	-0.01	-1.56			0.10	-0.25

Notes

Grab Samples

Low-Flow Test Report:

Test Date / Time: 4/13/2021 1:50:01 PM

Project: McDonough

Operator Name: Erik Rheams

Location Name: B-119D Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 99.74 ft Total Depth: 109.74 ft Initial Depth to Water: 47.58 ft	Estimated Total Volume Pumped: 6700 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 5.91 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728550
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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 %	+/- 10	+/- 10	+/- 0.25	
4/13/2021 1:50 PM	00:00	6.94 pH	20.84 °C	297.45 µS/cm	5.11 mg/L	6.75 NTU	62.7 mV	47.58 ft	180.00 ml/min
4/13/2021 1:52 PM	02:29	6.90 pH	18.35 °C	312.48 µS/cm	4.46 mg/L	6.75 NTU	72.9 mV	47.58 ft	180.00 ml/min
4/13/2021 1:57 PM	07:29	6.86 pH	17.50 °C	313.24 µS/cm	3.90 mg/L	4.41 NTU	50.5 mV	49.33 ft	180.00 ml/min
4/13/2021 2:02 PM	12:29	6.84 pH	17.39 °C	295.51 µS/cm	3.74 mg/L	3.94 NTU	62.2 mV	50.59 ft	180.00 ml/min
4/13/2021 2:07 PM	17:29	6.79 pH	17.36 °C	264.50 µS/cm	3.43 mg/L	2.88 NTU	45.7 mV	51.44 ft	180.00 ml/min
4/13/2021 2:12 PM	22:29	6.70 pH	17.23 °C	207.13 µS/cm	2.98 mg/L	2.26 NTU	43.4 mV	52.51 ft	130.00 ml/min
4/13/2021 2:17 PM	27:29	6.66 pH	17.65 °C	201.71 µS/cm	2.65 mg/L	3.61 NTU	55.6 mV	52.81 ft	100.00 ml/min
4/13/2021 2:22 PM	32:29	6.66 pH	17.99 °C	219.56 µS/cm	2.51 mg/L	3.37 NTU	42.2 mV	52.91 ft	100.00 ml/min
4/13/2021 2:27 PM	37:29	6.65 pH	17.94 °C	239.71 µS/cm	2.46 mg/L	6.87 NTU	39.1 mV	53.09 ft	100.00 ml/min
4/13/2021 2:32 PM	42:29	6.65 pH	18.28 °C	248.46 µS/cm	2.40 mg/L	1.79 NTU	44.2 mV	53.14 ft	100.00 ml/min
4/13/2021 2:37 PM	47:29	6.65 pH	18.17 °C	266.61 µS/cm	2.45 mg/L	2.48 NTU	30.2 mV	53.31 ft	100.00 ml/min
4/13/2021 2:42 PM	52:29	6.62 pH	18.17 °C	289.56 µS/cm	2.48 mg/L	2.81 NTU	22.3 mV	53.34 ft	100.00 ml/min
4/13/2021 2:47 PM	57:29	6.60 pH	18.28 °C	298.61 µS/cm	2.55 mg/L	1.25 NTU	15.7 mV	53.41 ft	100.00 ml/min
4/13/2021 2:52 PM	01:02:29	6.63 pH	18.17 °C	306.79 µS/cm	2.55 mg/L	1.74 NTU	7.2 mV	53.49 ft	100.00 ml/min
4/13/2021 2:57 PM	01:07:29	6.64 pH	17.90 °C	310.38 µS/cm	2.60 mg/L	1.82 NTU	1.7 mV	53.49 ft	100.00 ml/min

Samples

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

Product Name: Low-Flow System

Date: 2021-04-15 11:28:51

Project Information:

Operator Name Y.C. Soo
Company Name Golder
Project Name 166849621
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642531
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 67.5 ft

Pump placement from TOC 67.5 ft

Well Information:

Well ID B-120D
Well diameter 2 in
Well Total Depth 72.2 ft
Screen Length 10 ft
Depth to Water 33.82 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.391281 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.1 in
Total Volume Pumped 11 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:07:29	2099.96	18.45	5.43	1151.78	6.72	33.91	0.23	28.18
Last 5	11:12:29	2399.96	18.53	5.44	1158.20	5.40	33.91	0.21	19.07
Last 5	11:17:29	2699.95	18.37	5.45	1160.98	4.88	33.91	0.18	17.44
Last 5	11:22:29	2999.95	18.17	5.46	1163.35	3.94	33.91	0.17	15.17
Last 5	11:27:29	3299.94	18.06	5.46	1164.09	3.22	33.91	0.14	12.81
Variance 0			-0.17	0.01	2.78			-0.02	-1.63
Variance 1			-0.20	0.00	2.37			-0.01	-2.28
Variance 2			-0.10	0.00	0.74			-0.03	-2.36

Notes

Grab Samples

APPENDIX A

**Well Inspection Form
February 2021**

WELL INSPECTION FORM
PLANT MCDONOUGH

Date: February 21, 2021
Inspector: S. Brodie

Well-ID	POSITION	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		(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	↑	S	S	S	S	Poor recharge, requires purge dry and returning to sample
DGWA-70A	↑	S	S	S	S	S
DGWA-71	↑	S	Cracked Lid	S	S	S
DGWC-2	↓	S	S	S	S	S
DGWC-4	↓	S	S	S	S	S
DGWC-5	↓	S	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	No pvc weephole	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	↓	S	S	S	S	S
DGWC-38	↓	S	S	Bollard knocked over	S	S
DGWC-39	↓	S	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	↓	S	S	S	S	S
DGWC-68A	↓	S	S	S	S	S
DGWC-69	↓	S	S	S	S	S
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	Weep Hole Covered by Debris	S	S	S
B-28	↓	S	S	S	S	S
B-29	↓	S	S	Ants near pad	S	S
B-31	↓	S	S	S	S	S
B-41	↓	S	S	S	WASPS	S
B-50	↓	S	S	S	S	S
B-51	↓	S	S	S	WASPS	S
B-52	↓	S	S	S	S	S
B-54	↓	S	S	S	S	S
B-55	↓	S	Pad not completely touching ground	S	No pvc weephole and no cap (Transducer)	S
B-56	↓	S	S	S	S	S
B-57	↓	S	S	S	S	S
B-58	↓	S	Needs pea gravel	S	S	S
B-59	↓	S	S	S	S	S
B-60	↓	S	S	S	S	S
B-61	↓	S	S	S	S	S

WELL INSPECTION FORM
PLANT MCDONOUGH

Date: February 21, 2021
Inspector: S. Brodie

Well-ID	POSITION	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		(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
B-62	↓	Needs ID	Needs pea gravel	S	S	S
B-63	↓	S	Needs washers	S	S	S
B-64	↓	Needs ID	S	S	S	S
B-65	↓	Needs ID	S	Bolt intake broken	S	S
B-66	↓	S	S	S	S	S
B-68	↓	S	S	S	S	S
B-72	↓	S	S	S	S	S
B-73	↓	S	S	S	S	S
B-74	↓	S	S	S	S	S
B-76	↓	Needs ID	S	S	S	S
B-77	↓	S	S	S	S	S
B-78	↓	Needs ID	S	S	S	S
B-79	↓	Needs ID	S	S	S	S
B-80	↓	S	S	S	S	S
B-81	↓	S	S	S	S	S
B-82	↓	Downgrade of discharge pipe	Weep Hole	S	Weep hole	S
B-83	↓	S	S	S	S	S
B-84	↓	S	Needs Bolt	S	S	S
B-85	↓	S	S	S	S	S
B-86	↓	S	S	S	S	S
B-87	↓	S	S	Plant Growth	S	S
B-88	↓	S	S	Overgrown	S	S
B-89	↓	Needs ID	S	Stripped Bolt	S	S
B-90	↓	Needs ID	S	Cap off Transducer	S	S
B-91	↓	Needs ID	S	S	S	S
B-92	↓	Needs ID	S	S	S	S
B-93	↓	Needs ID	S	S	S	S
B-94	↓	S	S	S	S	S
B-95	↓	Close to Road	Needs new lock	Cracked Pad	Broken Cap	S
B-96	↓	Needs ID	S	S	S	S
B-97	↓	Needs ID	S	S	S	S
B-98	↓	Needs ID	S	S	S	S
B-99	↓	Needs ID	S	S	S	S
B-100	↓	S	S	S	S	S
B-101D	↓	S	S	S	S	S
B-102D	↓	S	S	Cracked Pad	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	S	S	S	S
B-110D	↓	S	Missing Bolt	S	S	S
B-111D	↓	Needs ID	S	Pad not fully in contact with ground	S	S
AP-1-B-3	IW	S	S	S	Missing PVC Weephole	S
AP-1-B-7	IW	S	S	S	S	S
AP-1-B-8	IW	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 A

Instrument Calibration Forms

Project Plant McDonough
 Field Staff Karim Minkara, Chris Tidwell, Jude Waguespack

Instrument Calibration

Date: Time: 8/11 8/12 8/13 8/14

Parameter	Units	Standard	SmarTROLL SN <u>392159</u> iPad # <u>94</u>	SmarTROLL SN <u>392105</u> iPad # <u>95</u>	SmarTROLL SN <u>39264</u> iPad # <u>92</u>	SmarTROLL SN <u>39264</u> iPad # <u>98</u>
DO	% saturation	100	96.7	92.2	92.9	96.2
Conductivity	us/cm	4490	4566	4517	4420	4392
pH	S.U.	4.00	4.11	4.16	4.13	4.41
pH	S.U.	7.00	7.21	7.21	7.24	7.22
pH	S.U.	10.00	10.12	10.14	10.08	10.11
ORP	mV	228.00	202.6	202.5	210.1	202.6

Turbidity	Units	Standard	LaMotte SN <u>2951492</u>	LaMotte SN <u>2951492</u>	LaMotte SN <u>2951491</u>	LaMotte SN <u>2951491</u>
	NTU	0.0	0.0	0.0	0.0	0.0
	NTU	1.0	1.03	1.12	1.01	0.98
	NTU	10.0	10.15	10.12	10.09	9.92

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 - millivolta; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Project Plant McDonough
 Field Staff Karim Minkara, Chris Tidwell, Jude Waguespack

Instrument Calibration

Date: 8/11/20 Time: 8/11/20 8/12/20 8/13/20

Parameter	Units	Standard	SmartROLL SN 64705? iPad # 91	SmartROLL SN 64705? iPad # 91	SmartROLL SN 64705? iPad # 91	SmartROLL SN 64705? iPad # 91
DO	% saturation	100	101.8	101.8	100.4	101.8
Conductivity	us/cm	4490	4465	4516	4495	4484
pH	S.U.	4.00	4.83	4.82	4.88	4.92
pH	S.U.	7.00	7.51	7.68	7.55	7.57
pH	S.U.	10.00	10.13	10.31	10.92	10.20
ORP	mV	228.00	185.7	182.7	184.0	179.3

Turbidity	Units	Standard	LaMotte SN 1479-401	LaMotte SN 1479-401	LaMotte SN 1479-401	LaMotte SN 1479-401
	NTU	0.0	0.02	0.10	0.03	0.05
	NTU	1.0	1.15	1.22	1.01	1.24
	NTU	10.0	10.00	10.00	10.00	9.35

Date: Time:

Parameter	Units	Standard	SmartROLL SN 64705? iPad # 91	SmartROLL SN iPad #	SmartROLL SN iPad #	SmartROLL SN iPad #
DO	% saturation	100	97.9			
Conductivity	us/cm	4490	4516			
pH	S.U.	4.00	4.82			
pH	S.U.	7.00	7.47			
pH	S.U.	10.00	10.09			
ORP	mV	228.00	190.2			

Turbidity	Units	Standard	LaMotte SN 1479-401	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0	0.00			
	NTU	1.0	0.82			
	NTU	10.0	9.75			

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 Karim Minkara, Chris Tidwell, Julia Wagnerspack

Instrument Calibration

Date: 08/11/20 Time: 07:00

Parameter	Units	Standard	0665			
			SmartTROLL SN 643819 iPad # 92	SmartTROLL SN 643819 iPad # 92	SmartTROLL SN 643819 iPad # 92	SmartTROLL SN 643819 iPad # 92
DO	% saturation	100	97.1	97.8	101.8	100.8
Conductivity	us/cm	4400	4534	4441	4460	4577
pH	S.U.	4.00	4.31	4.32	4.34	4.36
pH	S.U.	7.00	7.11	7.13	7.10	7.09
pH	S.U.	10.00	10.06	10.07	10.00	10.01
ORP	mV	228.00	210.4	208.8	209.6	209.7

Turbidity	Units	Standard	LaMotte SN 1857-0412	LaMotte SN 1857-0412	LaMotte SN 1857-0412	LaMotte SN 1857-0412
	NTU	0.0	0.03	0.0	0.0	0.0
	NTU	1.0	0.97	1.09	1.10	1.00
	NTU	10.0	9.98	9.10	9.64	9.91

Date: 08/17/20 Time: 08:00

Parameter	Units	Standard	0815			
			SmartTROLL SN 643819 iPad # 92	SmartTROLL SN 643819 iPad # 92	SmartTROLL SN _____ iPad # _____	SmartTROLL SN _____ iPad # _____
DO	% saturation	100	99.0	96.3		
Conductivity	us/cm	4400	4604	4608		
pH	S.U.	4.00	4.44	4.43		
pH	S.U.	7.00	7.07	7.08		
pH	S.U.	10.00	10.07	10.01		
ORP	mV	228.00	206.6	208.0		

Turbidity	Units	Standard	LaMotte SN 1857-0412	LaMotte SN 1857-0412	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.03	0.03		
	NTU	1.0	0.97	0.93		
	NTU	10.0	9.87	9.98		

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 C. Tidwell/D. Thomas/J. Waguespack

Instrument Calibration

Date: 9-22-20 Time: 0746

Parameter	Units	Standard	SmarTROLL SN 465016	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	90.3			
Conductivity	us/cm	4490	4512			
pH	S.U.	4.00	4.21			
pH	S.U.	7.00	7.02			
pH	S.U.	10.00	9.85			
ORP	mV	228.00	235.9			

Turbidity	Units	Standard	LaMotte SN 1601-4411	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

Date: 9-23-20 Time: 0749

Parameter	Units	Standard	SmarTROLL SN 465016	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	91.2			
Conductivity	us/cm	4490	4571			
pH	S.U.	4.00	4.17			
pH	S.U.	7.00	7.01			
pH	S.U.	10.00	9.816			
ORP	mV	228.00	234.0			

Turbidity	Units	Standard	LaMotte SN 1601-4411	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

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

Project Plant McDonough
 Field Staff C. Tidwell/D. Thomas/J. Waguespack

Instrument Calibration

Date: 9/24/20 Time: 0754

Parameter	Units	Standard	SmarTROLL SN <u>465016</u>	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	40.4			
Conductivity	us/cm	4490	4583			
pH	S.U.	4.00	4.16			
pH	S.U.	7.00	7.00			
pH	S.U.	10.00	9.87			
ORP	mV	228.00	228			

Turbidity	Units	Standard	LaMotte SN <u>161-4411</u>	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

Date: 9/25/20 Time: 0800

Parameter	Units	Standard	SmarTROLL SN <u>465016</u>	SmarTROLL SN <u>465016</u>	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100		40.7		
Conductivity	us/cm	4490		4625		
pH	S.U.	4.00		4.18 4.24		
pH	S.U.	7.00		6.97		
pH	S.U.	10.00		9.82		
ORP	mV	228.00		231.8		

Turbidity	Units	Standard	LaMotte SN <u>161-4411</u>	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	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 C. Tidwell/D. Thomas/J. Waguespack

Instrument Calibration

Date: 9/28/20 Time: 0808

Parameter	Units	Standard	SmarTROLL SN <u>46506</u>	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	92.5			
Conductivity	us/cm	4490	4719			
pH	S.U.	4.00	4.18			
pH	S.U.	7.00	6.99			
pH	S.U.	10.00	9.84			
ORP	mV	228.00	224.9			

	Units	Standard	LaMotte SN <u>461-4411</u>	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

Date: Time:

Parameter	Units	Standard	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00				

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

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

Project Plant McDonough
 Field Staff C. Tidwell/D. Thomas/J. Waguespack

Instrument Calibration *Agua Troll 400 / LaMotte 2020ME*

Date: *9-27-20* Time: *9/22 9/23 9/24 9/25*

Parameter	Units	Standard	SmarTROLL SN <i>72580</i>	SmarTROLL SN <i>74850</i>	SmarTROLL SN <i>73880</i>	SmarTROLL SN <i>72850</i>
DO	% saturation	100	<i>107.9</i>	<i>100.99</i>	<i>96.74</i>	<i>102.49</i>
Conductivity	us/cm	4490	<i>4175.6</i>	<i>4527.2</i>	<i>4568.2</i>	<i>4508.0</i>
pH	S.U.	4.00	<i>4.09</i>	<i>4.04</i>	<i>3.99</i>	<i>4.02</i>
pH	S.U.	7.00	<i>7.13</i>	<i>7.00</i>	<i>7.05</i>	<i>7.01</i>
pH	S.U.	10.00	<i>10.11</i>	<i>10.00</i>	<i>10.01</i>	<i>10.02</i>
ORP	mV	228.00	<i>235.2</i>	<i>230.4</i>	<i>226.2</i>	<i>225.7</i>

4502.7

Turbidity	Units	Standard	LaMotte SN <i>6405-1416</i>	LaMotte SN <i>6405-1416</i>	LaMotte SN <i>6405-1416</i>	LaMotte SN <i>6405-1416</i>
	NTU	0.0	<i>0.01</i>	<i>0.00</i>	<i>0.13</i>	<i>0.02</i>
	NTU	1.0	<i>0.99</i>	<i>1.0-1.7</i>	<i>0.93</i>	<i>0.93</i>
	NTU	10.0	<i>10.00</i>	<i>10.17</i>	<i>10.00</i>	<i>10.00</i>

Date: Time:

Parameter	Units	Standard	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00				

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

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

Project Plant McDonough
 Field Staff C. Tidwell/D. Thomas/J. Waguespack

Instrument Calibration

Date: 09.22.20 Time: 08:03

Parameter	Units	Standard	SmarTROLL SN 642531	07:57	07:58	08:02
				09/23/20	09/24/20	09/25/20
DO	% saturation	100	93.2	91.1	90.8	92.0
Conductivity	us/cm	4490	4603	4379	4054	4318
pH	S.U.	4.00	4.55	4.49	4.48	4.50
pH	S.U.	7.00	6.99	7.01	7.01	6.97
pH	S.U.	10.00	9.47	9.53	9.54	9.43
ORP	mV	228.00	225.5	222.8	218.6	218.5

Turbidity	Units	Standard	LaMotte SN 2491-3312	LaMotte SN 2491-3312	LaMotte SN 2491-3312	LaMotte SN 2491-3312
	NTU	0.0	0.02	0.0	0.0	0.0
	NTU	1.0	1.02	1.10	1.05	0.99
	NTU	10.0	10.22	9.46	9.22	9.84

Date: 09.28.20 Time: 08:03

Parameter	Units	Standard	SmarTROLL SN 642531	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	91.9			
Conductivity	us/cm	4490	5163			
pH	S.U.	4.00	4.56			
pH	S.U.	7.00	7.05			
pH	S.U.	10.00	9.29			
ORP	mV	228.00	213.2			

Turbidity	Units	Standard	LaMotte SN 2491-3312	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	0.96			
	NTU	10.0	10.09			

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

Project Plant McDonough

Include mid-day pH check

Field Staff D. Thomas / J. Waguespack / K. Minkara / A. McClure

Instrument Calibration

		Date	3/1/21	3/1/21	3/2/21	3/2/21
		Time	11:04	14:30	7:40	13:00
Parameter	Units	Standard	SmarTROLL SN 646777 iPad # 74	SmarTROLL SN 646777 iPad # 74	SmarTROLL SN 646777 iPad # 74	SmarTROLL SN 646777 iPad # 74
DO	% saturation	100	99.0	-	95.3	
Conductivity	us/cm	4490	4664	-	4387	
pH	S.U.	4.00	4.29	4.05	4.38	
pH	S.U.	7.00	7.06	-	7.06	7.02
pH	S.U.	10.00	9.82	-	9.77	
ORP	mV	228.00	290.6	-	245.6	

		Date	3/1/21	3/2/21	3/2/21	3/2/21
		Time				
Turbidity	Units	Standard	LaMotte SN 5896-3715	LaMotte SN	LaMotte SN 5896-3715	LaMotte SN
	NTU	0.0	0.01	-	0.01	-
	NTU	1.0	0.78	-	1.23	-
	NTU	10.0	10.35	-	8.73	-

		Date	3/3/21	3/3/21	3/4/21	3/4/21
		Time	07:59	12:58	03:59	17:45
Parameter	Units	Standard	SmarTROLL SN 646777 iPad # 74	SmarTROLL SN 646777 iPad # 74	SmarTROLL SN 646777 iPad # 74	SmarTROLL SN iPad #
DO	% saturation	100	97.6	-	97.9	
Conductivity	us/cm	4490	4397	-	4390	
pH	S.U.	4.00	4.47	-	4.39	
pH	S.U.	7.00	7.08	7.05	7.05	7.03
pH	S.U.	10.00	9.75	-	9.78	
ORP	mV	228.00	257.3	-	244.2	

		Date	3/3/21	3/3/21	3/4/21	3/4/21
		Time				
Turbidity	Units	Standard	LaMotte SN 5896-3715	LaMotte SN 5896-3715	LaMotte SN 5896-3715	LaMotte SN
	NTU	0.0	0.0	-	0.01	-
	NTU	1.0	1.12	-	0.91	-
	NTU	10.0	2.58	-	9.89	-

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

Include mid-day pH check

Project Plant McDonough
 Field Staff D. Thomas / J. Wagnerspack / K. Minkara / A. McClure

Instrument Calibration

		Date	2/5/21	3/2/21		3/9/21
		Time	7:55	7:44		7:56
Parameter	Units	Standard	SmartROLL SN 646777 iPad # 74	SmartROLL SN 646777 iPad # 77	SmartROLL SN _____ iPad # _____	SmartROLL SN 646777 iPad # 74
DO	% saturation	100	98.1	98.2		98.5
Conductivity	us/cm	4490	4488	4467		4462
pH	S.U.	4.00	4.38	4.52	4.47	4.47
pH	S.U.	7.00	7.06	7.07	7.08	7.07
pH	S.U.	10.00	9.79	9.71		9.76
ORP	mV	228.00	248.3	250.9		244.5

Turbidity	Units	Standard	LaMotte SN 5896-3715	LaMotte SN 5896-3715	LaMotte SN _____	LaMotte SN 5896-3715
	NTU	0.0	0.0	0.02		0.0
	NTU	1.0	0.99	1.00		1.07
	NTU	10.0	10.96	10.08		9.11

		Date	3/10/21	7/10/21	3/11/21	3/15/21	3/16/21
		Time	7:43	12:38	7:41	8:13	8:30
Parameter	Units	Standard	SmartROLL SN 646777 iPad # 74	SmartROLL SN 646777 iPad # 74	SmartROLL SN 646777 iPad # 74	SmartROLL SN 646777 iPad # 74	646777 74
DO	% saturation	100	90.8		98.5	96.1	96.6
Conductivity	us/cm	4490	4488		4471	4033	4742
pH	S.U.	4.00	7.47	7.05	4.42	7.46	4.62
pH	S.U.	7.00	7.06		7.04	6.99	7.05
pH	S.U.	10.00	9.77		9.63	9.72	9.73
ORP	mV	228.00	243.1		244.4	220.7	220.7

Turbidity	Units	Standard	LaMotte SN 5896-3715	LaMotte SN _____	LaMotte SN 5896-3715	LaMotte SN 5896-3715	5896-3715
	NTU	0.0	0.0	—	0.0	-0.01	0.0
	NTU	1.0	0.97	—	1.16	1.18	1.08
	NTU	10.0	10.36	—	9.09	10.12	10.45

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



Include mid-day pH check

Project Plant McDonough
 Field Staff D. Thomas / J. Waguespack / K. Minkara / A. McClure

Instrument Calibration

		Date	3-1-21			
		Time	1156			
Parameter	Units	Standard	SmarTROLL SN 517519 iPad # 72	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	98.6			
Conductivity	us/cm	4400	4318			
pH	S.U.	4.00	4.30			
pH	S.U.	7.00	7.03			
pH	S.U.	10.00	9.76			
ORP	mV	228.00	234.3			

Turbidity	Units	Standard	LaMotte SN 1386-381	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

		Date	3-2-21	3-2-21		
		Time	0740	1410		
Parameter	Units	Standard	SmarTROLL SN 517519 iPad # 78	SmarTROLL SN 507513 iPad # 78	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	94.5			
Conductivity	us/cm	4400	4457			
pH	S.U.	4.00	4.05			
pH	S.U.	7.00	7.00	7.06		
pH	S.U.	10.00	9.81			
ORP	mV	228.00	218.6			

Turbidity	Units	Standard	LaMotte SN 1386-381	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.6			
	NTU	1.0	1.0			
	NTU	10.0	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 mid-day pH check

Field Staff D. Thomas / J. Waguespack / K. Minkara / A. McClure

Instrument Calibration

		Date	3-3-21	3/12/21	3/12/21	
		Time	1130	0745	1200	
Parameter	Units	Standard	SmartROLL SN 512733 iPad # 91	SmartROLL SN 512733 iPad # 91	SmartROLL SN 512733 iPad # 91	SmartROLL SN _____ iPad # _____
DO	% saturation	100	91.4	92.4		
Conductivity	us/cm	4490	4379	4752		
pH	S.U.	4.00	4.83	4.57		
pH	S.U.	7.00	7.18	7.03	7.09	
pH	S.U.	10.00	9.96	9.67		
ORP	mV	228.00	228.8	236.2		

Turbidity	Units	Standard	LaMotte SN 1386-361	LaMotte SN 1386-381	LaMotte SN	LaMotte SN
	NTU	0.0	0.0	0.0		
	NTU	1.0	1.0	0.95		
	NTU	10.0	10.0	9.96		

		Date	3-4-21	3-4-21		
		Time	0757	1200		
Parameter	Units	Standard	SmartROLL SN 512733 iPad # 91	SmartROLL SN 512733 iPad # 91	SmartROLL SN _____ iPad # _____	SmartROLL SN _____ iPad # _____
DO	% saturation	100	97.9			
Conductivity	us/cm	4490	4588			
pH	S.U.	4.00	4.40			
pH	S.U.	7.00	7.09	7.01		
pH	S.U.	10.00	9.86			
ORP	mV	228.00	237.4			

Turbidity	Units	Standard	LaMotte SN 1386-381	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

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

Include mid-day pH check

Project Plant McDonough
 Field Staff D. Thomas / J. Waguespack / K. Minkara / A. McClure

DT

Instrument Calibration

		Date	3-5-21	3-12-21	3-12-21	3-12-21
		Time	0754	0738	0738	1050
Parameter	Units	Standard	SmarTROLL SN 512733 iPad # 91	SmarTROLL SN 513028 iPad # 109	SmarTROLL SN 64677 iPad # 74	SmarTROLL SN 553835 iPad # 109
DO	% saturation	100	97.1	97.8	97.8	
Conductivity	us/cm	4490	4661	4248	3844	4578
pH	S.U.	4.00	4.91	4.03	4.49	4.07
pH	S.U.	7.00	7.06	7.08	7.08	6.91
pH	S.U.	10.00	9.87	9.8	9.82	9.83
ORP	mV	228.00	230	239	239	238.7

Turbidity	Units	Standard	LaMotte SN 1384-381	LaMotte SN	LaMotte SN	LaMotte SN 1475-401
	NTU	0.0	0.0			0.0
	NTU	1.0	1.0			1.0
	NTU	10.0	10.0			10.0

		Date	3-8-21			
		Time	0750			
Parameter	Units	Standard	SmarTROLL SN 512733 iPad # 91	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	43.8			
Conductivity	us/cm	4490	4924			
pH	S.U.	4.00	4.63			
pH	S.U.	7.00	7.10			
pH	S.U.	10.00	9.71			
ORP	mV	228.00	246.4			

Turbidity	Units	Standard	LaMotte SN 1384-381	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

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

Project Plant McDonough
 Field Staff D. Thomas / J. Waguespack / K. Minkara / A. McClure

Include mid-day pH check

Instrument Calibration

		Date				
		Time				
Parameter	Units	Standard	SmarTROLL SN 512733 iPad # 91	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100		95.1		
Conductivity	us/cm	4490	4972			
pH	S.U.	4.00	4.69			
pH	S.U.	7.00	7.08			
pH	S.U.	10.00	10.00 st	9.65		
ORP	mV	228.00		248.8		

	Units	Standard	LaMotte SN 1306-3811	LaMotte SN 475 4011	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	0.0		0.0		
	NTU	1.0		1.0		
	NTU	10.0		10.0		

		Date				
		Time				
Parameter	Units	Standard	SmarTROLL SN 512733 iPad # 91	SmarTROLL SN 512733 iPad # 91	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	98.2	100		
Conductivity	us/cm	4490	5021	4593		
pH	S.U.	4.00	4.63	4.59		
pH	S.U.	7.00	7.04	7.01		
pH	S.U.	10.00	9.63	9.82		
ORP	mV	228.00	248.0	235.9		

	Units	Standard	LaMotte SN 475-4011	LaMotte SN 475-4011	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	0.0	0.0	0.0		
	NTU	1.0	1.0	1.0		
	NTU	10.0	10.0	10.0		

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

Include mid-day pH check

Project Plant McDonough
 Field Staff D. Thomas / J. Waguespack / K. Minkara / A. McClure

Instrument Calibration

Check #

3-1-21

		Date	3-1-21	3-1-21	3-2-21	3-2-21
		Time	1100	1555	0640	1315
Parameter	Units	Standard	SmarTROLL SN 513028 iPad # 109	SmarTROLL SN 513028 iPad # 109	SmarTROLL SN 513028 iPad # 109	SmarTROLL SN 513028 iPad # 109
DO	% saturation	100	100.00		99.9	
Conductivity	us/cm	4490	4514		4454	
pH	S.U.	4.00	4.39		4.36	4.51
pH	S.U.	7.00	7.15	7.06	7.18	7.15
pH	S.U.	10.00	9.91		10.03	9.73
ORP	mV	228.00	238.3		229.5	

Turbidity	Units	Standard	LaMotte SN 4392-194	LaMotte SN	LaMotte SN 4392-194	LaMotte SN
	NTU	0.0	0.09	X	0.01	X
	NTU	1.0	2.21	X	2.10	X
	NTU	10.0	10.09	X	10.00	X

		Date	3-3-21	3-3-21	3-4-21	3-4-21
		Time	0630	1436	636	1224
Parameter	Units	Standard	SmarTROLL SN 513028 iPad # 109	SmarTROLL SN 513028 iPad # 109	SmarTROLL SN 513028 iPad # 109	SmarTROLL SN 513028 iPad #
DO	% saturation	100	99.9		99.6	
Conductivity	us/cm	4490	4523		4662	
pH	S.U.	4.00	4.39		4.41	
pH	S.U.	7.00	7.15	7.08	7.13	7.09
pH	S.U.	10.00	9.99		9.99	
ORP	mV	228.00	234.3		223.1	

Turbidity	Units	Standard	LaMotte SN 4392-194	LaMotte SN	LaMotte SN 4392-194	LaMotte SN
	NTU	0.0	0.01	X	0.01	X
	NTU	1.0	1.03	X	1.11	X
	NTU	10.0	10.01	X	9.29	X

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

Project Plant McDonough
 Field Staff D. Thomas / J. Waguespack / K. Minkara / A. McClure

Include mid-day pH check

Instrument Calibration

			Date	3-5-21	3/9/21	3/10/21	3/10/21
			Time	8:30	0756	0735	0400
Parameter	Units	Standard	SmartROLL SN 513028 iPad # 107	SmartROLL SN 513028 iPad # 107	SmartROLL SN 513028 iPad # 107	SmartROLL SN 513028 iPad # 107	SmartROLL SN 513028 iPad # 107
DO	% saturation	100	105.3	105.2	106.4		
Conductivity	us/cm	4490	4618	4608	4585		
pH	S.U.	4.00	4.22	4.64	4.58		
pH	S.U.	7.00	7.14	7.18	7.11	7.09	
pH	S.U.	10.00	8.77	9.78	9.84		
ORP	mV	228.00	224.0	242.2	255.4		

Turbidity	Units	Standard	LaMotte SN 420-107	LaMotte SN 1386-380	LaMotte SN 4393-198	LaMotte SN
	NTU	0.0	0.02	0.01	0.02	
	NTU	1.0	1.10	0.9	0.87	
	NTU	10.0	8.94	8.87	10.2	

			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

Project Plant McDonough
 Field Staff S. Brodie, YC. Soo

Instrument Calibration

Date: 4/6/21 Time: 1200

Parameter	Units	Standard	SmarTROLL SN 4615016	SmarTROLL SN 42571	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100		102.9		
Conductivity	us/cm	4400	4340	4165		
pH	S.U.	4.00	4.20	4.01		
pH	S.U.	7.00	7.07	7.05		
pH	S.U.	10.00	9.93	9.81		
ORP	mV	228.00	230.7	222.3		

Turbidity	Units	Standard	LaMotte SN 5896-0515	LaMotte SN 5896-335	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0	0.0		
	NTU	1.0	1.0			
	NTU	10.0	10.0	10.0		

Date: 4/6/21 Time: 807

Parameter	Units	Standard	SmarTROLL SN 42531	SmarTROLL SN 3846	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	102.9			
Conductivity	us/cm	4400	4365			
pH	S.U.	4.00	4.39			
pH	S.U.	7.00	7.05			
pH	S.U.	10.00	9.81			
ORP	mV	228.00	222.3			

Turbidity	Units	Standard	LaMotte SN 5896-415	LaMotte SN 1603-6411	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0	0.0		
	NTU	1.0	1.0	1.0		
	NTU	10.0	10.0	10.0		

free H₂O

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 S. Brodie, YC. Soo

Instrument Calibration

Date: 4/7/21 Time: 8:15

Parameter	Units	Standard	SmarTROLL SN 512733	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	90.2			
Conductivity	us/cm	4490	4526			
pH	S.U.	4.00	4.26			
pH	S.U.	7.00	7.07			
pH	S.U.	10.00	9.93			
ORP	mV	228.00	230.0			

Turbidity	Units	Standard	LaMotte SN 568-011	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.00			
	NTU	1.0	1.1			
	NTU	10.0	10.03			

Date: 4/6/21 Time: 8:00

Parameter	Units	Standard	SmarTROLL SN 512733	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	92.9			
Conductivity	us/cm	4490	4519			
pH	S.U.	4.00	4.25			
pH	S.U.	7.00	7.07			
pH	S.U.	10.00	9.92			
ORP	mV	228.00	225.2			

Turbidity	Units	Standard	LaMotte SN 568-011	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.01			
	NTU	1.0	1.03			
	NTU	10.0	10.01			

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 S. Brodie, YC. Soo

Instrument Calibration

Date: 4/7/21 Time: 802

Parameter	Units	Standard	SmarTROLL SN 642231	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	100.7			
Conductivity	us/cm	4490	4469			
pH	S.U.	4.00	4.35			
pH	S.U.	7.00	7.12			
pH	S.U.	10.00	9.58			
ORP	mV	228.00	217.0			

Turbidity	Units	Standard	LaMotte SN 1603-4011	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

Date: 4/8/21 Time: 800

Parameter	Units	Standard	SmarTROLL SN 642531	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	103			
Conductivity	us/cm	4490	5370			
pH	S.U.	4.00	4.29			
pH	S.U.	7.00	7.11			
pH	S.U.	10.00	9.93			
ORP	mV	228.00	215.5			

Turbidity	Units	Standard	LaMotte SN 1603-4011	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	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 S. Brodie, YC. Soo

Instrument Calibration

Date: 4/9/21 Time: 0800

Parameter	Units	Standard	SmarTROLL SN <u>642531</u>	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	<u>100.3</u>			
Conductivity	us/cm	4490	<u>4593</u>			
pH	S.U.	4.00	<u>4.32</u>			
pH	S.U.	7.00	<u>7.40</u>			
pH	S.U.	10.00	<u>9.80</u>			
ORP	mV	228.00	<u>217.2</u>			

Turbidity	Units	Standard	LaMotte SN <u>1603-4911</u>	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	<u>0.0</u>			
	NTU	1.0	<u>1.26</u>			
	NTU	10.0	<u>10.0</u>			

Date: Time:

Parameter	Units	Standard	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00				

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

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

Project Plant McDonough
 Field Staff S. Brodie, YC. Soo, E. Rheams

Instrument Calibration

Date: 4/12/21 Time: 1026

Parameter	Units	Standard	SmarTROLL SN 642531	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	107.4			
Conductivity	us/cm	4400	4570			
pH	S.U.	4.00	4.42			
pH	S.U.	7.00	7.12			
pH	S.U.	10.00	9.89			
ORP	mV	228.00	225.5			

Turbidity	Units	Standard	LaMotte SN 4392-1914	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

Date: 4/13/21 Time: 209

Parameter	Units	Standard	SmarTROLL SN 642531	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	105.8			
Conductivity	us/cm	4400	4615			
pH	S.U.	4.00	4.41			
pH	S.U.	7.00	7.19			
pH	S.U.	10.00	9.92			
ORP	mV	228.00	226.3			

Turbidity	Units	Standard	LaMotte SN 4392-1914	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	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

Project Plant McDonough

Field Staff S. Brodit, R. S. S., E. R. Heams

Instrument Calibration

Date: 4/13/21 Time: 8:17

Parameter	Units	Standard	SmarTROLL SN 51233	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	90.7			
Conductivity	ms/cm	4000	4433			
pH	S.U.	4.00	4.35			
pH	S.U.	7.00	7.12			
pH	S.U.	10.00	9.96			
ORP	mV	228	232.1			

Turbidity Standard	Units	LaMotte SN	LaMotte SN 1711	LaMotte SN	LaMotte SN
0.0	NTU		0.01		
1.0	NTU		1.03		
10.0	NTU		10.08		

Date: 4/14/21 Time: 8:10

Parameter	Units	Standard	SmarTROLL SN 51233	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	91.0			
Conductivity	ms/cm	4000	4415			
pH	S.U.	4.00	4.39			
pH	S.U.	7.00	7.18			
pH	S.U.	10.00	9.95			
ORP	mV	228	233.6			

Turbidity Standard	Units	LaMotte SN	LaMotte SN 561-0111	LaMotte SN	LaMotte SN
0.0	NTU		0.00		
1.0	NTU		1.01		
10.0	NTU		9.97		

Notes: DO - Dissolved Oxygen; ms/cm - millisiemens/second; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units

Field Staff S. Brodie, YC. Soo, E. Rheams

Instrument Calibration

Date: 4/14/21 Time: 0800

Parameter	Units	Standard	SmarTROLL SN 642531	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	102.7			
Conductivity	us/cm	4400	4402			
pH	S.U.	4.00	4.33			
pH	S.U.	7.00	7.10			
pH	S.U.	10.00	10.47			
ORP	mV	228.00	233.3			

Turbidity	Units	Standard	LaMotte SN 4892-1914	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

Date: 4/15/21 Time: 0750

Parameter	Units	Standard	SmarTROLL SN 642531	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	102.9			
Conductivity	us/cm	4400	4463			
pH	S.U.	4.00	4.39			
pH	S.U.	7.00	7.12			
pH	S.U.	10.00	10.50			
ORP	mV	228.00	230.2			

Turbidity	Units	Standard	LaMotte SN 4892-1914	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	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

**Data Validation Summaries
August & September 2020**

Quality Control Review of Analytical Data- Ash Pond AP-2, 3/4 Submitted by Pace Analytical Services, LLC August Through November 2020

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 between August 11, 2020 and November 11, 2020. 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 (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Inductively Coupled Plasma (6010D), Determination of Inorganic Anions By Ion Chromatography (USEPA Method 300.0), Total Dissolved Solids (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 (January 2017), and US Department of Energy, Evaluation of Radiochemical Data Usability (April 1997). The review included an assessment of the results for completeness, precision (laboratory duplicates, matrix spike/matrix spike duplicates), accuracy (laboratory control samples and matrix spike samples), and blank contamination (including field and laboratory blanks). Additionally, sample procedures, holding times and chains-of-custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytic methodology, method-specific criteria or professional judgment was used.

DATA QUALITY OBJECTIVES

Laboratory Precision:	Laboratory goals for precision were met exception of total dissolved solids (TDS) as described in the qualifications sections below.
Field Precision:	Field goals for precision were met.
Accuracy:	Laboratory goals for accuracy were met with the exception of fluoride, chloride and sulfate as described in the qualification sections below.
Detection Limits:	Project goals for detection limits were met. Certain samples were diluted due to elevated concentrations of target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.
Completeness:	There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: All holding time requirements were met in accordance with specific analytical methods.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of low precision or accuracy, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory 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 92490488, 92490503, 92490963, 92496904, 92496907, 92496940, 92496941, 92497117, 92497125, and 92505380, 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-89 from SDG 92497125 was qualified as estimated when the associated lab duplicate exceeded the relative percent difference criteria.
- Certain antimony, chromium, lead, and mercury results 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, chloride, and sulfate results in DGWA-53 from SDG 92496940 were qualified as estimated biased high (J+) as the associated matrix spike/matrix spike duplicate (MS/MSD) recoveries were above the QC criteria.

Golder reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2, 3/4 between August 11, 2020 and November 11, 2020 in accordance with the analytical methods, the laboratory specific QC criteria, and the guidelines. As described above, 100% of the results were acceptable for project use. The data are considered usable for meeting project objectives and the results are considered valid.

REFERENCE

Paar, J.G. & 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 AP-2, 3/4

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Field pH	Analyses					Radium 226, Radium 228 (9315, 9320)
							Total Metals (EPA 6020B)	Calcium (EPA 6010D)	Mercury (EPA 7470A)	Anions (EPA 300.0)	TDS (SM 2540C)	
92490488	DGWA-70A	8/11/2020	92490488001	GW	-	X	X	-	X	X	-	X
92490488	DGWA-71	8/11/2020	92490488002	GW	-	X	X	-	X	X	-	X
92490488	EB-1	8/11/2020	92490488003	WQ	EB (DGWA-70A)	X	X	-	X	X	-	X
92490488	DGWA-53	8/13/2020	92490488004	GW	-	X	X	-	X	X	-	X
92490503	DGWC-2	8/11/2020	92490503001	GW	-	X	X	-	X	X	-	X
92490503	DGWC-9	8/11/2020	92490503002	GW	-	X	X	-	X	X	-	X
92490503	DGWC-10	8/11/2020	92490503003	GW	-	X	X	-	X	X	-	X
92490503	DGWC-11	8/11/2020	92490503004	GW	-	X	X	-	X	X	-	X
92490503	DGWC-12	8/11/2020	92490503005	GW	-	X	X	-	X	X	-	X
92490503	DGWC-14	8/11/2020	92490503006	GW	-	X	X	-	X	X	-	X
92490503	DGWC-19	8/11/2020	92490503007	GW	-	X	X	-	X	X	-	X
92490503	FD-1	8/11/2020	92490503009	GW	FD (DGWC-10)	X	X	-	X	X	-	X
92490503	DGWC-4	8/12/2020	92490503010	GW	-	X	X	-	X	X	-	X
92490503	DGWC-5	8/12/2020	92490503011	GW	-	X	X	-	X	X	-	X
92490503	DGWC-8	8/12/2020	92490503012	GW	-	X	X	-	X	X	-	X
92490503	DGWC-13	8/12/2020	92490503013	GW	-	X	X	-	X	X	-	X
92490503	DGWC-47	8/12/2020	92490503014	GW	-	X	X	-	X	X	-	X
92490503	FD-2	8/12/2020	92490503015	GW	FD (DGWC-8)	X	X	-	X	X	-	X
92490503	DGWC-15	8/13/2020	92490503016	GW	-	X	X	-	X	X	-	X
92490503	DGWC-20	8/13/2020	92490503017	GW	-	X	X	-	X	X	-	X
92490503	DGWC-23	8/13/2020	92490503018	GW	-	X	X	-	X	X	-	X
92490503	DGWC-42	8/13/2020	92490503019	GW	-	X	X	-	X	X	-	X
92490503	DGWC-48	8/13/2020	92490503020	GW	-	X	X	-	X	X	-	X
92490503	DGWC-17	8/14/2020	92490503022	GW	-	X	X	-	X	X	-	X
92490503	FB-3	8/14/2020	92490503025	WQ	FB	X	X	-	X	X	-	X
92490503	EB-3	8/14/2020	92490503026	WQ	EB	X	X	-	X	X	-	X
92490503	FB-1	8/11/2020	92490503008	WQ	FB (GWC-14)	X	X	-	X	X	-	X
92490503	FB-2	8/13/2020	92490503021	WQ	FB (GWC-15)	X	X	-	X	X	-	X
92490503	DGWC-21	8/14/2020	92490503023	GW	-	X	X	-	X	X	-	X
92490503	DGWC-22	8/14/2020	92490503024	GW	-	X	X	-	X	X	-	X
92490963	B-77	8/13/2020	92490963002	GW	-	X	X	-	X	X	-	X
92490963	B-74	8/14/2020	92490963003	GW	-	X	X	-	X	X	-	X
92490963	B-83	8/14/2020	92490963006	GW	-	X	X	-	X	X	-	X
92490963	FD-3	8/14/2020	92490963005	GW	FD (B-74)	X	X	-	X	X	-	X
92490963	B-89	8/14/2020	92490963004	GW	-	X	X	-	X	X	-	X
92490963	B-3	8/17/2020	92490963010	GW	-	X	X	-	X	X	-	X
92490963	B-56	8/17/2020	92490963009	GW	-	X	X	-	X	X	-	X
92490963	B-82	8/17/2020	92490963011	GW	-	X	X	-	X	X	-	X
92490963	B-88	8/17/2020	92490963007	GW	-	X	X	-	X	X	-	X
92490963	B-93	8/19/2020	92490963012	GW	-	X	X	-	X	X	-	X
92496904	DGWC-4	9/22/2020	92496904001	GW	-	-	-	-	-	-	-	X
92496904	DGWC-5	9/22/2020	92496904002	GW	-	-	-	-	-	-	-	X
92496904	DGWC-9	9/22/2020	92496904003	GW	-	-	-	-	-	-	-	X
92496904	DGWC-11	9/22/2020	92496904004	GW	-	-	-	-	-	-	-	X
92496904	DGWC-12	9/22/2020	92496904005	GW	-	-	-	-	-	-	-	X
92496904	DGWC-14	9/22/2020	92496904006	GW	-	-	-	-	-	-	-	X
92496904	DGWC-19	9/22/2020	92496904007	GW	-	-	-	-	-	-	-	X
92496904	DGWC-20	9/22/2020	92496904008	GW	-	-	-	-	-	-	-	X
92496904	DGWC-42	9/22/2020	92496904009	GW	-	-	-	-	-	-	-	X
92496904	FD-1	9/22/2020	92496904011	GW	FD (DGWC-14)	-	-	-	-	-	-	X
92496904	DGWC-2	9/23/2020	92496904012	GW	-	-	-	-	-	-	-	X
92496904	DGWC-8	9/23/2020	92496904013	GW	-	-	-	-	-	-	-	X
92496904	DGWC-13	9/23/2020	92496904014	GW	-	-	-	-	-	-	-	X
92496904	DGWC-15	9/23/2020	92496904015	GW	-	-	-	-	-	-	-	X
92496904	DGWC-47	9/23/2020	92496904016	GW	-	-	-	-	-	-	-	X
92496904	DGWC-48	9/23/2020	92496904017	GW	-	-	-	-	-	-	-	X
92496904	DGWC-10	9/24/2020	92496904020	GW	-	-	-	-	-	-	-	X
92496904	DGWC-17	9/24/2020	92496904021	GW	-	-	-	-	-	-	-	X
92496904	DGWC-21	9/24/2020	92496904022	GW	-	-	-	-	-	-	-	X
92496904	DGWC-22	9/24/2020	92496904023	GW	-	-	-	-	-	-	-	X
92496904	EB-2	9/23/2020	92496904018	WQ	EB (DGWC-15)	-	-	-	-	-	-	X
92496904	FB-2	9/23/2020	92496904019	WQ	FB (DGWC-48)	-	-	-	-	-	-	X
92496904	EB-3	9/24/2020	92496904026	WQ	EB (DGWC-22)	-	-	-	-	-	-	X
92496904	FB-1	9/22/2020	92496904010	WQ	FB (DGWC-9)	-	-	-	-	-	-	X
92496904	DGWC-23	9/24/2020	92496904024	GW	-	-	-	-	-	-	-	X
92496904	FD-3	9/24/2020	92496904025	GW	FD (DGWC-17)	-	-	-	-	-	-	X
92496907	DGWA-53	9/22/2020	92496907001	GW	-	-	-	-	-	-	-	X
92496907	DGWA-70A	9/22/2020	92496907002	GW	-	-	-	-	-	-	-	X
92496907	DGWA-71	9/22/2020	92496907003	GW	-	-	-	-	-	-	-	X
92496907	EB-1	9/22/2020	92496907004	WQ	EB (DGWA-70A)	-	-	-	-	-	-	X
92496940	DGWA-53	9/22/2020	92496940001	GW	-	X	X	X	X	X	X	-
92496940	DGWA-70A	9/22/2020	92496940002	GW	-	X	X	X	X	X	X	-

Sample Summary Table
SCS Plant McDonough AP-2, 3/4

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Field pH	Total Metals (EPA 6020B)	Calcium (EPA 6010D)	Mercury (EPA 7470A)	Anions (EPA 300.0)	TDS (SM 2540C)	Radium 226, Radium 228 (9315, 9320)
92496940	DGWA-71	9/22/2020	92496940003	GW	-	X	X	X	X	X	X	-
92496940	EB-1	9/22/2020	92496940004	WQ	EB (DGWA-70A)	X	X	X	X	X	X	-
92496941	DGWC-4	9/22/2020	92496941001	GW	-	X	X	X	X	X	X	-
92496941	DGWC-5	9/22/2020	92496941002	GW	-	X	X	X	X	X	X	-
92496941	DGWC-9	9/22/2020	92496941003	GW	-	X	X	X	X	X	X	-
92496941	DGWC-11	9/22/2020	92496941004	GW	-	X	X	X	X	X	X	-
92496941	DGWC-12	9/22/2020	92496941005	GW	-	X	X	X	X	X	X	-
92496941	DGWC-14	9/22/2020	92496941006	GW	-	X	X	X	X	X	X	-
92496941	DGWC-19	9/22/2020	92496941007	GW	-	X	X	X	X	X	X	-
92496941	DGWC-20	9/22/2020	92496941008	GW	-	X	X	X	X	X	X	-
92496941	DGWC-42	9/22/2020	92496941009	GW	-	X	X	X	X	X	X	-
92496941	FB-1	9/22/2020	92496941010	WQ	FB (DGWC-9)	X	X	X	X	X	X	-
92496941	FD-1	9/22/2020	92496941011	GW	FD (DGWC-14)	X	X	X	X	X	X	-
92496941	DGWC-2	9/23/2020	92496941012	GW	-	X	X	X	X	X	X	-
92496941	DGWC-8	9/23/2020	92496941013	GW	-	X	X	X	X	X	X	-
92496941	DGWC-13	9/23/2020	92496941014	GW	-	X	X	X	X	X	X	-
92496941	DGWC-15	9/23/2020	92496941015	GW	-	X	X	X	X	X	X	-
92496941	DGWC-47	9/23/2020	92496941016	GW	-	X	X	X	X	X	X	-
92496941	DGWC-48	9/23/2020	92496941017	GW	-	X	X	X	X	X	X	-
92496941	EB-2	9/23/2020	92496941018	WQ	EB (DGWC-15)	X	X	X	X	X	X	-
92496941	FB-2	9/23/2020	92496941019	WQ	FB (DGWC-48)	X	X	X	X	X	X	-
92496941	DGWC-10	9/24/2020	92496941020	GW	-	X	X	X	X	X	X	-
92496941	DGWC-17	9/24/2020	92496941021	GW	-	X	X	X	X	X	X	-
92496941	DGWC-21	9/24/2020	92496941022	GW	-	X	X	X	X	X	X	-
92496941	DGWC-22	9/24/2020	92496941023	GW	-	X	X	X	X	X	X	-
92496941	DGWC-23	9/24/2020	92496941024	GW	-	X	X	X	X	X	X	-
92496941	FD-3	9/24/2020	92496941025	GW	FD (DGWC-17)	X	X	X	X	X	X	-
92496941	EB-3	9/24/2020	92496941026	WQ	EB (DGWC-22)	X	X	X	X	X	X	-
92497117	B-89	9/23/2020	92497117001	GW	-	-	-	-	-	-	-	X
92497117	B-88	9/25/2020	92497117007	GW	-	-	-	-	-	-	-	X
92497117	B-56	9/28/2020	92497117009	GW	-	-	-	-	-	-	-	X
92497117	B-82	9/28/2020	92497117010	GW	-	-	-	-	-	-	-	X
92497117	B-74	9/25/2020	92497117005	GW	-	-	-	-	-	-	-	X
92497117	B-83	9/25/2020	92497117006	GW	-	-	-	-	-	-	-	X
92497117	B-77	9/24/2020	92497117003	GW	-	-	-	-	-	-	-	X
92497117	B-93	9/28/2020	92497117011	GW	-	-	-	-	-	-	-	X
92497125	B-89	9/23/2020	92497125001	GW	-	X	X	X	X	X	X	-
92497125	B-88	9/25/2020	92497125007	GW	-	X	X	X	X	X	X	-
92497125	B-56	9/28/2020	92497125009	GW	-	X	X	X	X	X	X	-
92497125	B-82	9/28/2020	92497125010	GW	-	X	X	X	X	X	X	-
92497125	B-74	9/25/2020	92497125005	GW	-	X	X	X	X	X	X	-
92497125	B-83	9/25/2020	92497125006	GW	-	X	X	X	X	X	X	-
92497125	B-77	9/24/2020	92497125003	GW	-	X	X	X	X	X	X	-
92497125	B-93	9/28/2020	92497125011	GW	-	X	X	X	X	X	X	-
92505380	B-3	11/11/2020	92505380001	GW	-	X	X	X	X	-	-	-
92505380	DUP-1	11/11/2020	92505380002	GW	FD (B-3)	X	X	X	X	-	-	-
92505380	EB-1	11/11/2020	92505380003	WQ	EB (B-3)	X	X	X	X	-	-	-

Abbreviations:

- SDG - Sample Delivery Group
- EB - Equipment blank
- FB - Field blank
- FD - Field duplicate
- GW - Groundwater
- TDS - Total dissolved solids
- WQ - Water quality control

TABLE 2
Qualifier Summary Table
Plant McDonough AP-2, 3/4

<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>
92490488	DGWA-70A	Chromium	0.01	-	U	Method blank contamination
92490488	DGWA-71	Chromium	0.01	-	U	Method blank contamination
92490488	DGWA-70A	Antimony	0.003	-	U	Equipment blank contamination
92490503	DGWC-2	Chromium	0.010	-	U	Method blank contamination
92490503	DGWC-9	Chromium	0.010	-	U	Method blank contamination
92490503	DGWC-10	Chromium	0.010	-	U	Method blank contamination
92490503	DGWC-11	Chromium	0.010	-	U	Method blank contamination
92490503	DGWC-12	Chromium	0.010	-	U	Method blank contamination
92490503	DGWC-19	Chromium	0.010	-	U	Method blank contamination
92490503	FD-1	Chromium	0.010	-	U	Method blank contamination
92490503	DGWC-15	Lead	0.005	-	U	Field blank contamination
92490963	B-88	Mercury	0.0002	-	U	Method blank contamination
92490963	B-56	Mercury	0.0002	-	U	Method blank contamination
92490963	B-3	Mercury	0.0002	-	U	Method blank contamination
92490963	B-82	Mercury	0.0002	-	U	Method blank contamination
92496940	DGWA-53	Chloride	-	-	J+	MS/MSD outside acceptance criteria
92496940	DGWA-53	Fluoride	-	-	J+	MS/MSD outside acceptance criteria
92496940	DGWA-53	Sulfate	-	-	J+	MS/MSD outside acceptance criteria
92496941	DGWC-17	Antimony	0.0030	-	U	Equipment blank contamination
92496941	DGWC-10	Mercury	0.00050	-	U	Method blank contamination
92496941	DGWC-17	Mercury	0.00050	-	U	Method blank contamination
92496941	DGWC-21	Mercury	0.00050	-	U	Method blank contamination
92496941	DGWC-23	Mercury	0.00050	-	U	Method blank contamination
92497125	B-89	TDS	-	-	J	Laboratory RPD exceedance
92497125	B-93	Mercury	0.0005	-	U	Method blank contamination

Abbreviations:

SDG : Sample delivery group

MDC : Minimum detectable concentration

RL : Reporting limit

MS/MSD: Matrix spike/matrix spike duplicate

TDS: Total Dissolved Solids

RPD: Relative Percent Difference

Qualifiers:

U : Non-detect result

J : Estimated value

J+: Estimated value, bias high

APPENDIX A

**Data Validation Summaries
March and April 2021**

Quality Control Review of Analytical Data- Ash Pond AP-2, 3/4 Submitted by Pace Analytical Services, LLC March through April 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 March 1, 2021 and April 15, 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 (January 2017), and US Department of Energy, Evaluation of Radiochemical Data Usability (April 1997). The review included an assessment of the results for completeness, precision (laboratory and field duplicates, matrix spike/matrix spike duplicates), accuracy (laboratory control samples and matrix spike samples), and blank contamination (including field and laboratory blanks). Additionally, sample procedures, holding times and chains-of-custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytic methodology, method-specific criteria or professional judgment was used.

DATA QUALITY OBJECTIVES

Laboratory Precision:	Laboratory goals for precision were met, with the exception of TDS, as described in the qualification section below.
Field Precision:	Field goals for precision were met.
Accuracy:	Laboratory goals for accuracy were met with the exception of fluoride as described in the qualification sections below.
Detection Limits:	Project goals for detection limits were met. Certain samples were diluted due to elevated concentrations of target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.
Completeness:	There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: All holding time requirements were met in accordance with specific analytical methods.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of precision or accuracy, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the data validation process.

- J** The analyte was reported above the method detection limit; 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 92524830, 92524823, 92524831, 92530282, 92524825, 92530271, 92533254, and 92533252 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-119D from SDG 92533252 was qualified as estimated when the associated lab duplicate exceeded the relative percent difference criteria.
- Certain antimony (from SDG 92530271) and boron (from SDG 92524831) results 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 RL were reported. If results were above the RL, the results were reported and qualified U.
- Certain radium-226 results, from SDG 92524823 and 92524825, were qualified U when the analyte was detected at a similar level in an associated blank sample.
- The fluoride result in B-56 from SDG 92530271 was qualified as estimated and biased high (J+) as the associated matrix spike/matrix spike duplicate (MS/MSD) recoveries were above the QC criteria.

Golder reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2, 3/4 between March 1, 2021 and April 15, 2021 in accordance with the analytical methods, the laboratory specific QC criteria, and the guidelines. As described above, 100% of the results were acceptable for project use. The data are considered usable for meeting project objectives and the results are considered valid.

REFERENCE

Paar, J.G. & 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 AP-2, 3/4

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses						
						Field pH	Total Metals (SW 6020B)	Calcium (SW 6010D)	Mercury (EPA 7470A)	Anions (EPA 300.0)	TDS (SM 2540C-2011)	Radium 226, Radium 228 (9315, 9320)
92524830	DGWA-70A	3/1/2021	92524830001	GW	-	X	X	X	X	X	X	-
92524830	DGWA-71	3/1/2021	92524830002	GW	-	X	X	X	X	X	X	-
92524830	DGWA-53	3/12/2021	92524830003	GW	-	X	X	X	X	X	X	-
92524830	DGWA-70A	3/1/2021	92524830001	GW	-	X	X	X		X	X	-
92524830	DGWA-71	3/1/2021	92524830002	GW	-	X	X	X		X	X	-
92524830	DGWA-53	3/12/2021	92524830003	GW	-	X	X	X		X	X	-
92524823	DGWA-70A	3/1/2021	92524823001	GW	-	-	-	-	-	-	-	X
92524823	DGWA-71	3/1/2021	92524823002	GW	-	-	-	-	-	-	-	X
92524823	DGWA-53	3/12/2021	92524823003	GW	-	-	-	-	-	-	-	X
92524831	DGWC-4	3/1/2021	92524831001	GW	-	X	X	X	X	X	X	-
92524831	DGWC-2	3/2/2021	92524831002	GW	-	X	X	X	X	X	X	-
92524831	DGWC-5	3/2/2021	92524831003	GW	-	X	X	X	X	X	X	-
92524831	DGWC-8	3/2/2021	92524831004	GW	-	X	X	X	X	X	X	-
92524831	DGWC-9	3/2/2021	92524831005	GW	-	X	X	X	X	X	X	-
92524831	DGWC-11	3/2/2021	92524831006	GW	-	X	X	X	X	X	X	-
92524831	DGWC-13	3/2/2021	92524831007	GW	-	X	X	X	X	X	X	-
92524831	DGWC-14	3/2/2021	92524831008	GW	-	X	X	X	X	X	X	-
92524831	DGWC-15	3/2/2021	92524831009	GW	-	X	X	X	X	X	X	-
92524831	DGWC-19	3/2/2021	92524831010	GW	-	X	X	X	X	X	X	-
92524831	DGWC-20	3/2/2021	92524831011	GW	-	X	X	X	X	X	X	-
92524831	DUP-1	3/2/2021	92524831012	GW	FD (DGWC-15)	X	X	X	X	X	X	-
92524831	FB-1	3/2/2021	92524831013	WQ	FB (DGWC-2)	X	X	X	X	X	X	-
92524831	EB-1	3/2/2021	92524831014	WQ	EB (DGWC-5)	X	X	X	X	X	X	-
92524831	DGWC-12	3/3/2021	92524831016	GW	-	X	X	X	X	X	X	-
92524831	DGWC-17	3/3/2021	92524831017	GW	-	X	X	X	X	X	X	-
92524831	DGWC-21	3/3/2021	92524831018	GW	-	X	X	X	X	X	X	-
92524831	DGWC-22	3/3/2021	92524831019	GW	-	X	X	X	X	X	X	-
92524831	DGWC-23	3/3/2021	92524831020	GW	-	X	X	X	X	X	X	-
92524831	DGWC-42	3/3/2021	92524831021	GW	-	X	X	X	X	X	X	-
92524831	DGWC-47	3/3/2021	92524831022	GW	-	X	X	X	X	X	X	-
92524831	DGWC-48	3/3/2021	92524831023	GW	-	X	X	X	X	X	X	-
92524831	DGWC-10	3/4/2021	92524831024	GW	-	X	X	X	X	X	X	-
92530282	B-56	3/3/2021	92524825015	GW	-	-	-	-	-	-	-	X
92530282	B-77	3/4/2021	92524825029	GW	-	-	-	-	-	-	-	X
92530282	B-83	3/4/2021	92524825030	GW	-	-	-	-	-	-	-	X
92530282	B-88	3/5/2021	92524825026	GW	-	-	-	-	-	-	-	X
92530282	B-101D	3/5/2021	92524825027	GW	-	-	-	-	-	-	-	X
92530282	B-111D	3/5/2021	92524825028	GW	-	-	-	-	-	-	-	X
92530282	B-102D	3/4/2021	92524825031	GW	-	-	-	-	-	-	-	X
92530282	B-104D	3/4/2021	92524825032	GW	-	-	-	-	-	-	-	X
92530282	B-106D	3/4/2021	92524825033	GW	-	-	-	-	-	-	-	X
92530282	B-107D	3/4/2021	92524825034	GW	-	-	-	-	-	-	-	X
92530282	B-108D	3/4/2021	92524825035	GW	-	-	-	-	-	-	-	X
92530282	B-109D	3/8/2021	92524825039	GW	-	-	-	-	-	-	-	X
92530282	B-93	3/9/2021	92526990001	GW	-	-	-	-	-	-	-	X
92530282	DUP-2	3/4/2021	92524825036	GW	FD (B-102D)	-	-	-	-	-	-	X
92530282	FB-2	3/4/2021	92524825037	WQ	FB (B-106D)	-	-	-	-	-	-	X
92530282	EB-2	3/4/2021	92524825038	WQ	EB (B-107D)	-	-	-	-	-	-	X
92524825	DGWC-4	3/1/2021	92524825001	GW	-	-	-	-	-	-	-	X
92524825	DGWC-2	3/2/2021	92524825002	GW	-	-	-	-	-	-	-	X
92524825	DGWC-5	3/2/2021	92524825003	GW	-	-	-	-	-	-	-	X
92524825	DGWC-8	3/2/2021	92524825004	GW	-	-	-	-	-	-	-	X
92524825	DGWC-9	3/2/2021	92524825005	GW	-	-	-	-	-	-	-	X
92524825	DGWC-11	3/2/2021	92524825006	GW	-	-	-	-	-	-	-	X
92524825	DGWC-13	3/2/2021	92524825007	GW	-	-	-	-	-	-	-	X
92524825	DGWC-14	3/2/2021	92524825008	GW	-	-	-	-	-	-	-	X
92524825	DGWC-15	3/2/2021	92524825009	GW	-	-	-	-	-	-	-	X
92524825	DGWC-19	3/2/2021	92524825010	GW	-	-	-	-	-	-	-	X
92524825	DGWC-20	3/2/2021	92524825011	GW	-	-	-	-	-	-	-	X
92524825	DUP-1	3/2/2021	92524825012	GW	FD (DGWC-15)	-	-	-	-	-	-	X
92524825	FB-1	3/2/2021	92524825013	WQ	FB (DGWC-2)	-	-	-	-	-	-	X
92524825	EB-1	3/2/2021	92524825014	WQ	EB (DGWC-5)	-	-	-	-	-	-	X
92524825	DGWC-12	3/3/2021	92524825016	GW	-	-	-	-	-	-	-	X
92524825	DGWC-17	3/3/2021	92524825017	GW	-	-	-	-	-	-	-	X
92524825	DGWC-21	3/3/2021	92524825018	GW	-	-	-	-	-	-	-	X
92524825	DGWC-22	3/3/2021	92524825019	GW	-	-	-	-	-	-	-	X
92524825	DGWC-23	3/3/2021	92524825020	GW	-	-	-	-	-	-	-	X
92524825	DGWC-42	3/3/2021	92524825021	GW	-	-	-	-	-	-	-	X
92524825	DGWC-47	3/3/2021	92524825022	GW	-	-	-	-	-	-	-	X
92524825	DGWC-48	3/3/2021	92524825023	GW	-	-	-	-	-	-	-	X
92524825	DGWC-10	3/4/2021	92524825024	GW	-	-	-	-	-	-	-	X
92530271	B-56	3/3/2021	92524831015	GW	-	X	X	X	X	X	X	-
92530271	B-88	3/5/2021	92524831026	GW	-	X	X	X	X	X	X	-
92530271	B-101D	3/5/2021	92524831027	GW	-	X	X	X	X	X	X	-
92530271	B-111D	3/5/2021	92524831028	GW	-	X	X	X	X	X	X	-
92530271	B-77	3/4/2021	92524831029	GW	-	X	X	X	X	X	X	-
92530271	B-83	3/4/2021	92524831030	GW	-	X	X	X	X	X	X	-
92530271	B-102D	3/4/2021	92524831031	GW	-	X	X	X	X	X	X	-

Sample Summary Table
SCS Plant McDonough AP-2, 3/4

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Field pH	Total Metals (SW 6020B)	Calcium (SW 6010D)	Mercury (EPA 7470A)	Anions (EPA 300.0)	TDS (SM 2540C-2011)	Radium 226, Radium 228 (9315, 9320)
92530271	B-104D	3/4/2021	92524831032	GW	-	X	X	X	X	X	X	-
92530271	B-106D	3/4/2021	92524831033	GW	-	X	X	X	X	X	X	-
92530271	B-107D	3/4/2021	92524831034	GW	-	X	X	X	X	X	X	-
92530271	B-108D	3/4/2021	92524831035	GW	-	X	X	X	X	X	X	-
92530271	B-109D	3/8/2021	92524831039	GW	-	X	X	X	X	X	X	-
92530271	B-93	3/9/2021	92526988001	GW	-	X	X	X	X	X	X	-
92530271	DUP-2	3/4/2021	92524831036	GW	FD (B-102D)	-	X	X	X	X	X	-
92530271	FB-2	3/4/2021	92524831037	WQ	FB (B-106D)	-	X	X	X	X	X	-
92530271	EB-2	3/4/2021	92524831038	WQ	EB (B-107D)	-	X	X	X	X	X	-
92530271	B-115D	4/14/2021	92533254001	GW	-	X	X	X	X	X	X	-
92533254	B-120D	4/15/2021	92533254002	GW	-	X	X	X	X	X	X	-
92533252	B-116D	4/13/2021	92533252001	GW	-	X	X	X	X	X	X	-
92533252	B-117D	4/14/2021	92533252002	GW	-	X	X	X	X	X	X	-
92533252	B-118	4/13/2021	92533252003	GW	-	X	X	X	X	X	X	-
92533252	B-119D	4/13/2021	92533252004	GW	-	X	X	X	X	X	X	-

Abbreviations:

- SDG - Sample Delivery Group
- WQ - Water quality control
- SW - Solid Waste
- EPA - Environmental Protection Agency
- EB - Equipment blank
- FB - Field blank
- FD - Field duplicate
- GW - Groundwater
- TDS - Total dissolved solids

TABLE 2
Qualifier Summary Table
Plant McDonough AP-2, 3/4

<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>
92524823	DGWA-53	Radium-226	-	0.786	U	Blank contamination
92524831	DGWC-47	Boron	-	0.089	U	Blank contamination
92524825	DGWC-2	Radium-226	-	0.417	U	Blank contamination
92530271	B-101D	Antimony	0.0030	-	U	Blank contamination
92530271	B-111D	Antimony	0.0030	-	U	Blank contamination
92530271	B-77	Antimony	0.0030	-	U	Blank contamination
92530271	B-104D	Antimony	0.0030	-	U	Blank contamination
92530271	B-109D	Antimony	0.0030	-	U	Blank contamination
92530271	B-56	Fluoride	-	-	J+	MS/MSD outside acceptance criteria
92533252	B-119D	TDS	-	-	J	Lab duplicate RPD outside of acceptance limits

Abbreviations:

SDG : Sample delivery group
MDC : Minimum detectable concentration
RL : Reporting limit
MS/MSD: Matrix spike/matrix spike duplicate
RPD : Relative Percent Difference

Qualifiers:

U : Non-detect result
J+ : Estimated value, bias high
J : Estimated value

APPENDIX A

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) 692-0416*

06/10/2020

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 1VAC30-46 and The NELAC Institute (TNI) 2009 Standard. Certificate number 10807 and the corresponding Scope of Accreditation are enclosed. This certificate expires 06/14/2021. 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 1VAC30-46-90 A. This requirement includes changes in ownership, location, key personnel, and major instrumentation.

To maintain accreditation, the laboratory must continue to comply with 1VAC30-46. 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 or (804) 648-4480 x306.

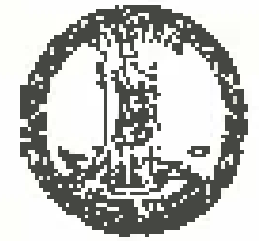
Sincerely yours,

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: PWS PARENT, LLC
Operator: PACE ANALYTICAL SERVICES, LLC
Responsible Official: JILL KUMAR GAN

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, 2020

Expiration Date: June 14, 2021

Certificate # 10897

Denise M. Tonge, Ph.D., MCIU
DEIS Deputy Director for Laboratories

Continued accreditation status depends on successful ongoing participation in the program.

Certificate to be conspicuously displayed at the laboratory.

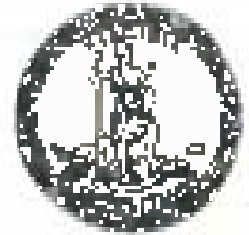
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP)

Scope of Accreditation:

Customers are urged to verify the laboratory's current accreditation status.



Commonwealth of Virginia
 Department of General Services
 Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No. 10807

Pace Analytical Services, LLC - Asheville NC
 2225 Riverside Drive
 Asheville, NC 28804

VIRGINIA LABORATORY ID: 458222
 Effective Date: June 15, 2020
 Expiration Date: June 14, 2021

DRINKING WATER

METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4	COPPER	VA
EPA 200.2 REV 3.1AS LACM 2110 10/04/15 C)	NITRATE AS N	VA
SM 8220 B 2011	ALKALINITY AS CaCO3	VA
SM 8223 COLIS.M 05	TOTAL COLIFORMS	VA

METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4	LEAD	VA
EPA 200.2 REV 3.1AS LACM 2110 10/04/15	NITRITE AS N	VA
SM 8223 COLIS.M 05	BACTERIOLOGICAL	VA

NON-POTABLE WATER

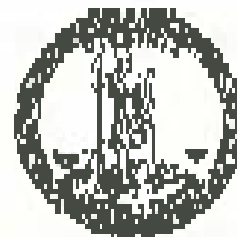
METHOD	ANALYTE	PRIMARY
EPA 1010	FLUORIDE	VA
EPA 160.4	RESIDUE VOLATILE	VA
EPA 160.7 REV 2	CHLORIDE	VA
EPA 200.7 REV 4.4	AMMONIUM	VA
EPA 200.7 REV 4.4	BARIUM	VA
EPA 200.7 REV 4.4	BORON	VA
EPA 200.7 REV 4.4	CALCIUM	VA
EPA 200.7 REV 4.4	COBALT	VA
EPA 200.7 REV 4.4	IRON	VA
EPA 200.7 REV 4.4	MAGNESIUM	VA
EPA 200.7 REV 4.4	MANGANESE	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	SULFATE	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	CHLORINE	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 130.1	CONDUCTIVITY	VA
EPA 183.1 F	BARIUM	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 200.7 REV 5.4	AMMONIUM	VA
EPA 200.8 REV 5.4	BARIUM	VA
EPA 200.8 REV 5.4	CADMIUM	VA
EPA 200.8 REV 5.4	CHROMIUM	VA
EPA 200.8 REV 5.4	COPPER	VA
EPA 200.8 REV 5.4	LEAD	VA
EPA 200.8 REV 5.4	MANGANESE	VA
EPA 200.8 REV 5.4	NICKEL	VA
EPA 200.8 REV 5.4	THALLIUM	VA
EPA 200.8 REV 5.4	ZINC	VA
EPA 200.8 REV 5.4 EXTENDED	CADMIUM	VA
EPA 200.8 REV 5.4 EXTENDED	MANGANESE	VA
EPA 200.8 REV 5.4 EXTENDED	TIN	VA

The Scope of Accreditation must accompany the Certificate issued by Virginia DGS with the same Certificate Number indicated above.



Commonwealth of Virginia
Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VCLAP Certificate No. 10507

Pace Analytical Services, LLC - Asheville NC
 7775 Highway 130
 Asheville, NC 28804

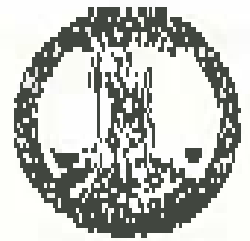
Virginia Laboratory ID: 499333
Effective Date: June 15, 2020
Expiration Date: June 14, 2021

NON-POTABLE WATER

METHOD	ANALYTE	PROPERTY	METHOD	ANALYTE	PROPERTY
EPA 200.8 REV 1.4 - EXTENDED	TIN	VA	EPA 200.8 REV 1.4 - EXTENDED	TITANIUM	VA
EPA 200.8 REV 2.2	CHROMIUM VI	VA	EPA 245.1 REV 1	AMMONIUM	VA
EPA 200.8 REV 2.1	CHROMIUM	VA	EPA 300.0 REV 2.1	CHLORIDE	VA
EPA 200.8 REV 2.1	FLUORIDE	VA	EPA 300.0 REV 2.1	NITRATE AS N	VA
EPA 200.8 REV 2.1	NITROGEN DIOXIDE	VA	EPA 300.0 REV 2.1	NITRITE AS N	VA
EPA 200.8 REV 2.1	LEAD (Pb) (Pb) (Pb) AS P	VA	EPA 300.0 REV 2.1	SULFATE	VA
EPA 200.8	PREP ACID DIGESTION METHOD FOR TOTAL RESIDUABLE OR DISSOLVED METALS	VA	EPA 301.0	PREP ACID DIGESTION OF AQUEOUS SAMPLES AND SUBSTRATES FOR TOTAL AMMONIA	VA
EPA 350 - REV 2	AMMONIUM AS N	VA	EPA 351.2 REV 2 (AS LACHAT 10-110-01-03)	HEAVY METALS (TOTAL) (TRM)	VA
EPA 383.2 REV 2 (AS LACHAT 10-110-01-01-05)	NITRATE AS N	VA	EPA 383.2 REV 2 (AS LACHAT 10-110-01-01-05)	NITRATE/NITRITE	VA
EPA 383.2 REV 2 (AS LACHAT 10-110-01-01-01)	NITRITE AS N	VA	EPA 386.1 REV 2 (AS LACHAT 10-110-01-01-01)	PHOSPHORUS - TOTAL	VA
EPA 383.2 REV 1 (AS LACHAT 10-110-01-01-01)	TOTAL PHOSPHORUS	VA	EPA 8010.0	ALUMINUM	VA
EPA 8010.0	ANTHRACENE	VA	EPA 8010.0	ARSENIC	VA
EPA 8010.0	BANILIN	VA	EPA 8010.0	BIPHENYL	VA
EPA 8010.0	BENZENE	VA	EPA 8010.0	CADMIUM	VA
EPA 8010.0	CALCIUM	VA	EPA 8010.0	CHROMIUM	VA
EPA 8010.0	COPPER	VA	EPA 8010.0	COPPER	VA
EPA 8010.0	IRON	VA	EPA 8010.0	LEAD	VA
EPA 8010.0	LITHIUM	VA	EPA 8010.0	MANGANESE	VA
EPA 8010.0	MANGANESE	VA	EPA 8010.0	MOLYBDENUM	VA
EPA 8010.0	NICKEL	VA	EPA 8010.0	ANTHRACENE	VA
EPA 8010.0	SILICIC ACID	VA	EPA 8010.0	Ben PAHs (BPAHs)	VA
EPA 8010.0	STRONTIUM	VA	EPA 8010.0	COBALT	VA
EPA 8010.0	Van	VA	EPA 8010.0	ETHYLENE	VA
EPA 8010.0	Vanadium	VA	EPA 8010.0	ZINC	VA
EPA 8010.0 - EXTENDED	SILICON	VA	EPA 8020.0	ALUMINUM	VA
EPA 8020.0	ANTHRACENE	VA	EPA 8020.0	ARSENIC	VA
EPA 8020.0	BANILIN	VA	EPA 8020.0	BIPHENYL	VA
EPA 8020.0	CADMIUM	VA	EPA 8020.0	COPPER	VA
EPA 8020.0	CHROMIUM	VA	EPA 8020.0	COPPER	VA
EPA 8020.0	COPPER	VA	EPA 8020.0	IRON	VA
EPA 8020.0	LEAD	VA	EPA 8020.0	MANGANESE	VA
EPA 8020.0	MANGANESE	VA	EPA 8020.0	MOLYBDENUM	VA



Commonwealth of Virginia
 Department of General Services
 Division of Consolidated Laboratory Services



Scope of Accreditation

9000 Certificate No. 10007

Phase Analytical Services, LLC - Asheville NC
 7776 Riverchase Drive
 Asheville, NC 28804

Virginia Laboratory ID: 440222
 Effective Date: June 15, 2020
 Expiration Date: June 14, 2021

NON POTABLE WATER

METHOD	ANALYTE	PRECEDENCE
6040-0100	AMMONIUM	VA
6040-0200	AMMONIA	VA
6040-0300	PH	VA
6040-0400	ZINC	VA
6040-0500 - 6040-0500	COBALT	VA
6040-0500 - 6040-0500	IRON/COBALT	VA
6040-0500 - 6040-0500	IRANIUM	VA
6040-0600	ARSENIC	VA
6040-0700	TOTAL CHLORINE	VA
6040-0800	PHOSPHORUS	VA
6040-0900	FLUORIDE	VA
6040-1000	NITRITENITROGEN	VA
6040-1100	COPPER	VA
EPA 9060 A	TOTAL CHLORINE CHARACTERISTICS	VA
LACHAT QUIKCHEM 10-204-00-1-X	CHLORINE	VA
SM 2340 B-2011	TOTAL CHLORINE BY COLOR	VA
SM 2540 C-2011	PHOSPHORUS BY MURPHY (TITR)	VA
SM 2540 F-2011	PHOSPHORUS BY MOLYBDENUM	VA
SM 4500-CL ⁻ E-2011	CHLORIDE	VA
SM 4500-P E-2011	PHOSPHORUS BY ASBESTOS	VA
SM 5210 B-2011	AMMONIUM NITROGEN BY NITROGEN DIOXIDE	VA
SM 5220 D-2011	CHEMICAL OXYGEN DEMAND (COD)	VA

METHOD	ANALYTE	PRECEDENCE
6040-1200	CHLORINE	VA
6040-1300	CHLORINE	VA
6040-1400	CHLORINE	VA
6040-1500	CHLORINE	VA
6040-1600	CHLORINE	VA
6040-1700	CHLORINE	VA
6040-1800	CHLORINE	VA
6040-1900	CHLORINE	VA
6040-2000	CHLORINE	VA
6040-2100	CHLORINE	VA
6040-2200	CHLORINE	VA
6040-2300	CHLORINE	VA
6040-2400	CHLORINE	VA
6040-2500	CHLORINE	VA
6040-2600	CHLORINE	VA
6040-2700	CHLORINE	VA
6040-2800	CHLORINE	VA
6040-2900	CHLORINE	VA
6040-3000	CHLORINE	VA
6040-3100	CHLORINE	VA
6040-3200	CHLORINE	VA
6040-3300	CHLORINE	VA
6040-3400	CHLORINE	VA
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6040-3600	CHLORINE	VA
6040-3700	CHLORINE	VA
6040-3800	CHLORINE	VA
6040-3900	CHLORINE	VA
6040-4000	CHLORINE	VA
6040-4100	CHLORINE	VA
6040-4200	CHLORINE	VA
6040-4300	CHLORINE	VA
6040-4400	CHLORINE	VA
6040-4500	CHLORINE	VA
6040-4600	CHLORINE	VA
6040-4700	CHLORINE	VA
6040-4800	CHLORINE	VA
6040-4900	CHLORINE	VA
6040-5000	CHLORINE	VA
6040-5100	CHLORINE	VA
6040-5200	CHLORINE	VA
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6040-7400	CHLORINE	VA
6040-7500	CHLORINE	VA
6040-7600	CHLORINE	VA
6040-7700	CHLORINE	VA
6040-7800	CHLORINE	VA
6040-7900	CHLORINE	VA
6040-8000	CHLORINE	VA
6040-8100	CHLORINE	VA
6040-8200	CHLORINE	VA
6040-8300	CHLORINE	VA
6040-8400	CHLORINE	VA
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6040-8600	CHLORINE	VA
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6040-8900	CHLORINE	VA
6040-9000	CHLORINE	VA
6040-9100	CHLORINE	VA
6040-9200	CHLORINE	VA
6040-9300	CHLORINE	VA
6040-9400	CHLORINE	VA
6040-9500	CHLORINE	VA
6040-9600	CHLORINE	VA
6040-9700	CHLORINE	VA
6040-9800	CHLORINE	VA
6040-9900	CHLORINE	VA
6040-10000	CHLORINE	VA

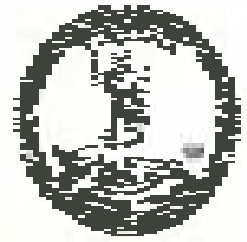
SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRECEDENCE
EPA 1010 A	FLUORIDE	VA
EPA 1312	PHOSPHORUS BY MURPHY (TITR)	VA
EPA 3050 B	PHOSPHORUS BY MOLYBDENUM	VA
EPA 6010 D	AMMONIA	VA
EPA 6010 D	AMMONIUM	VA
EPA 6010 D	COBALT	VA
EPA 6010 D	COPPER	VA
EPA 6010 D	IRON	VA
EPA 6010 D	ZINC	VA

METHOD	ANALYTE	PRECEDENCE
EPA 1311	PHOSPHORUS BY MOLYBDENUM	VA
EPA 3010 A	PHOSPHORUS BY ASBESTOS	VA
EPA 6010 D	AMMONIA	VA
EPA 6010 D	AMMONIUM	VA
EPA 6010 D	COBALT	VA
EPA 6010 D	COPPER	VA
EPA 6010 D	IRON	VA
EPA 6010 D	ZINC	VA



Commonwealth of Virginia
Department of General Services
Division of Professional Laboratory Services



Scope of Accreditation

CLP Certificate No. 1287

Fast Analytical Services, LLC - Asheville NC
2225 Riverside Drive
Asheville, NC 28804

Virginia Laboratory ID: 490223
Effective Date: June 18, 2020
Expiration Date: June 14, 2021

SOLID AND CHEMICAL MATERIALS

<u>METHOD</u>	<u>ANALYTE</u>	<u>COMPLIANCE</u>
EP 8210	MAGNESIUM	A
EP 8210	NICKEL	A
EP 8210	POTASSIUM	A
EP 8210	SILICA	A
EP 8210	STRONTIUM	A
EP 8210	TUNGSTEN	A
EP 8210	ZINC	A
EP 8210	ARSENIC	A
EP 808	TOTAL ORGANIC CARBON TOC	A
EP 808	TOTAL PHENOLS	A

<u>METHOD</u>	<u>ANALYTE</u>	<u>COMPLIANCE</u>
EP 8210	MANGANESE	A
EP 8210	MOSE	A
EP 8210	SELENIUM	A
EP 8210	SODIUM	A
EP 8210	TELLUR	A
EP 8210	WOLFR	A
EP 8210-EP 8210-01	SULFUR	A
EP 808-01	PH	A
EP 808-01	TOTAL ORGANIC CARBON TOC	A
EP 808-01	FREE AMIC	A



State of Florida
 Department of Health, Bureau of Public Health Laboratories
 This is to certify that

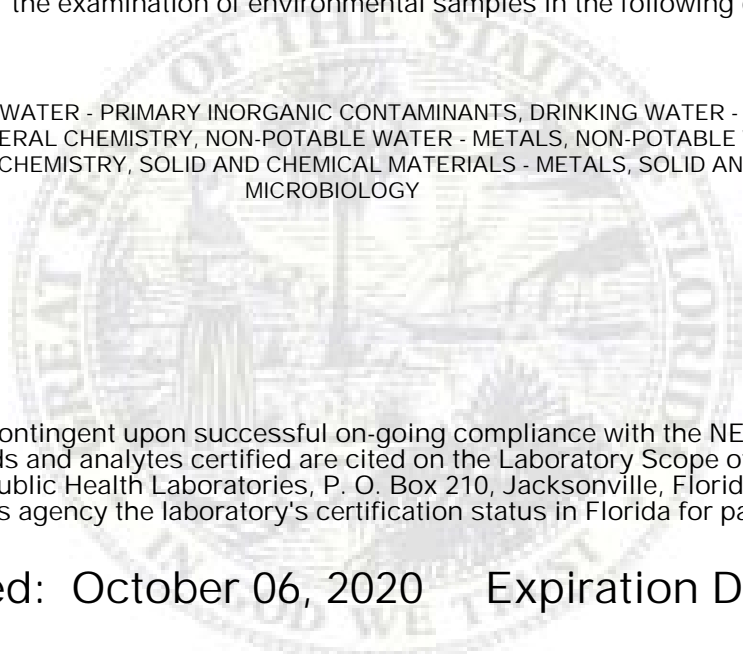


E87315

PACE ANALYTICAL SERVICES, LLC- ATLANTA GA
 110 TECHNOLOGY PARKWAY
 PEACHTREE CORNERS, GA 30092

has complied with Florida Administrative Code 64E-1,
 for the examination of environmental samples in the following categories

DRINKING WATER - MICROBIOLOGY, DRINKING WATER - PRIMARY INORGANIC CONTAMINANTS, DRINKING WATER - SECONDARY INORGANIC CONTAMINANTS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - MICROBIOLOGY, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - MICROBIOLOGY



Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: October 06, 2020 Expiration Date: June 30, 2021



Patty A. Lewandowski, MBA, MT(ASCP)
 Chief Bureau of Public Health Laboratories
 DH Form 1697, 7/04

NON-TRANSFERABLE E87315-49-10/06/2020
 Supersedes all previously issued certificates



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-49, expiration date June 30, 2021. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87315**

EPA Lab Code: **GA00051**

(770) 734-4200

E87315

Pace Analytical Services, LLC- Atlanta GA

110 Technology Parkway

Peachtree Corners, GA 30092

Matrix: **Drinking Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Color	SM 2120 B	Secondary Inorganic Contaminants	NELAP	4/10/2002
Escherichia coli	SM 9223 B	Microbiology	NELAP	4/10/2002
Escherichia coli	SM 9223 B /QUANTI-TRAY	Microbiology	NELAP	11/4/2010
Heterotrophic plate count	SIMPLATE	Microbiology	NELAP	5/29/2012
Nitrate	EPA 353.2	Primary Inorganic Contaminants	NELAP	4/17/2020
Nitrite	EPA 353.2	Primary Inorganic Contaminants	NELAP	4/17/2020
Orthophosphate as P	SM 4500-P E	Primary Inorganic Contaminants	NELAP	4/10/2002
pH	SM 4500-H+-B	Primary Inorganic Contaminants,Secondary Inorganic Contaminants	NELAP	4/10/2002
Residual free chlorine	SM 4500-Cl G	Primary Inorganic Contaminants	NELAP	11/4/2010
Total coliforms	SM 9223 B	Microbiology	NELAP	4/10/2002
Total coliforms	SM 9223 B /QUANTI-TRAY	Microbiology	NELAP	11/4/2010
Total nitrate-nitrite	EPA 353.2	Primary Inorganic Contaminants	NELAP	4/17/2020
Total residual chlorine	SM 4500-Cl G	Primary Inorganic Contaminants	NELAP	11/4/2010
Turbidity	EPA 180.1	Secondary Inorganic Contaminants	NELAP	4/10/2002



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-49, expiration date June 30, 2021. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87315**

EPA Lab Code: **GA00051**

(770) 734-4200

E87315

Pace Analytical Services, LLC- Atlanta GA

110 Technology Parkway

Peachtree Corners, GA 30092

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aluminum	EPA 200.7	Metals	NELAP	4/10/2002
Aluminum	EPA 200.8	Metals	NELAP	8/30/2004
Aluminum	EPA 6010	Metals	NELAP	7/1/2003
Aluminum	EPA 6020	Metals	NELAP	8/30/2004
Amenable cyanide	EPA 9010/9014	General Chemistry	NELAP	7/1/2003
Amenable cyanide	SM 4500-CN- G	General Chemistry	NELAP	10/15/2007
Antimony	EPA 200.7	Metals	NELAP	4/10/2002
Antimony	EPA 200.8	Metals	NELAP	8/30/2004
Antimony	EPA 6010	Metals	NELAP	7/1/2003
Antimony	EPA 6020	Metals	NELAP	8/30/2004
Arsenic	EPA 200.7	Metals	NELAP	4/10/2002
Arsenic	EPA 200.8	Metals	NELAP	8/30/2004
Arsenic	EPA 6010	Metals	NELAP	4/10/2002
Arsenic	EPA 6020	Metals	NELAP	8/30/2004
Barium	EPA 200.7	Metals	NELAP	4/10/2002
Barium	EPA 200.8	Metals	NELAP	8/30/2004
Barium	EPA 6010	Metals	NELAP	7/1/2003
Barium	EPA 6020	Metals	NELAP	8/30/2004
Beryllium	EPA 200.7	Metals	NELAP	4/10/2002
Beryllium	EPA 200.8	Metals	NELAP	8/30/2004
Beryllium	EPA 6010	Metals	NELAP	7/1/2003
Beryllium	EPA 6020	Metals	NELAP	8/30/2004
Biochemical oxygen demand	SM 5210 B	General Chemistry	NELAP	4/10/2002
Boron	EPA 200.7	Metals	NELAP	4/10/2002
Boron	EPA 200.8	Metals	NELAP	11/6/2014
Boron	EPA 6010	Metals	NELAP	7/1/2003
Boron	EPA 6020	Metals	NELAP	8/30/2004
Cadmium	EPA 200.7	Metals	NELAP	4/10/2002
Cadmium	EPA 200.8	Metals	NELAP	8/30/2004
Cadmium	EPA 6010	Metals	NELAP	4/10/2002
Cadmium	EPA 6020	Metals	NELAP	8/30/2004
Calcium	EPA 200.7	Metals	NELAP	4/10/2002
Calcium	EPA 200.8	Metals	NELAP	11/6/2014
Calcium	EPA 6010	Metals	NELAP	7/1/2003
Calcium	EPA 6020	Metals	NELAP	8/30/2004
Carbonaceous BOD (CBOD)	SM 5210 B	General Chemistry	NELAP	4/10/2002

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 10/6/2020

Expiration Date: 6/30/2021



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-49, expiration date June 30, 2021. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87315**

EPA Lab Code: **GA00051**

(770) 734-4200

E87315

Pace Analytical Services, LLC- Atlanta GA

110 Technology Parkway

Peachtree Corners, GA 30092

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Chromium	EPA 200.7	Metals	NELAP	4/10/2002
Chromium	EPA 200.8	Metals	NELAP	8/30/2004
Chromium	EPA 6010	Metals	NELAP	7/1/2003
Chromium	EPA 6020	Metals	NELAP	8/30/2004
Chromium VI	SM 3500-Cr B (20th/21st/22nd Ed.)/UV-VIS	General Chemistry	NELAP	7/28/2009
Cobalt	EPA 200.7	Metals	NELAP	4/10/2002
Cobalt	EPA 200.8	Metals	NELAP	8/30/2004
Cobalt	EPA 6010	Metals	NELAP	7/1/2003
Cobalt	EPA 6020	Metals	NELAP	8/30/2004
Color	SM 2120 B	General Chemistry	NELAP	4/10/2002
Copper	EPA 200.7	Metals	NELAP	4/10/2002
Copper	EPA 200.8	Metals	NELAP	8/30/2004
Copper	EPA 6010	Metals	NELAP	4/10/2002
Copper	EPA 6020	Metals	NELAP	8/30/2004
Corrosivity (pH)	EPA 9040	General Chemistry	NELAP	7/1/2003
Cyanide	SM 4500-CN E	General Chemistry	NELAP	10/15/2007
Escherichia coli	SM 9223 B /QUANTI-TRAY	Microbiology	NELAP	11/4/2010
Fecal coliforms	COLILERT®-18 (Fecal Coliforms)	Microbiology	NELAP	11/6/2014
Fecal coliforms	SM 9222 D	Microbiology	NELAP	2/21/2002
Hardness	SM 2340 B	General Chemistry	NELAP	7/28/2009
Hardness (calc.)	EPA 200.7	Metals	NELAP	6/6/2002
Heterotrophic plate count	SIMPLATE	Microbiology	NELAP	5/29/2012
Iron	EPA 200.7	Metals	NELAP	4/10/2002
Iron	EPA 200.8	Metals	NELAP	11/6/2014
Iron	EPA 6010	Metals	NELAP	7/1/2003
Iron	EPA 6020	Metals	NELAP	8/30/2004
Iron	SM 3500-Fe D (18th/19th Ed.)/UV-VIS	General Chemistry	NELAP	2/5/2002
Iron-(II) (Ferrous Iron)	SM 3500-Fe B (20th/21st Ed.)/UV-VIS	General Chemistry	NELAP	7/28/2009
Lead	EPA 200.7	Metals	NELAP	4/10/2002
Lead	EPA 200.8	Metals	NELAP	8/30/2004
Lead	EPA 6010	Metals	NELAP	4/10/2002
Lead	EPA 6020	Metals	NELAP	8/30/2004
Lithium	EPA 200.8	Metals	NELAP	10/6/2016

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 10/6/2020

Expiration Date: 6/30/2021



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-49, expiration date June 30, 2021. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87315**

EPA Lab Code: **GA00051**

(770) 734-4200

E87315

Pace Analytical Services, LLC- Atlanta GA

110 Technology Parkway

Peachtree Corners, GA 30092

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Lithium	EPA 6020	Metals	NELAP	10/6/2016
Magnesium	EPA 200.7	Metals	NELAP	4/10/2002
Magnesium	EPA 200.8	Metals	NELAP	11/6/2014
Magnesium	EPA 6010	Metals	NELAP	7/1/2003
Magnesium	EPA 6020	Metals	NELAP	8/30/2004
Manganese	EPA 200.7	Metals	NELAP	4/10/2002
Manganese	EPA 200.8	Metals	NELAP	8/30/2004
Manganese	EPA 6010	Metals	NELAP	7/1/2003
Manganese	EPA 6020	Metals	NELAP	8/30/2004
Mercury	EPA 245.1	Metals	NELAP	4/10/2002
Mercury	EPA 7470	Metals	NELAP	4/10/2002
Molybdenum	EPA 200.7	Metals	NELAP	4/10/2002
Molybdenum	EPA 200.8	Metals	NELAP	8/30/2004
Molybdenum	EPA 6010	Metals	NELAP	4/10/2002
Molybdenum	EPA 6020	Metals	NELAP	8/30/2004
Nickel	EPA 200.7	Metals	NELAP	4/10/2002
Nickel	EPA 200.8	Metals	NELAP	8/30/2004
Nickel	EPA 6010	Metals	NELAP	4/10/2002
Nickel	EPA 6020	Metals	NELAP	8/30/2004
Nitrate as N	EPA 353.2	General Chemistry	NELAP	4/17/2020
Nitrate-nitrite	EPA 353.2	General Chemistry	NELAP	4/17/2020
Nitrite as N	EPA 353.2	General Chemistry	NELAP	4/17/2020
Orthophosphate as P	SM 4500-P E	General Chemistry	NELAP	4/10/2002
Oxygen, dissolved	ASTM D888-09C	General Chemistry	NELAP	11/6/2014
Oxygen, dissolved	SM 4500-O G	General Chemistry	NELAP	4/10/2002
pH	EPA 9040	General Chemistry	NELAP	7/1/2003
pH	SM 4500-H+-B	General Chemistry	NELAP	10/15/2007
Phosphorus, total	EPA 200.7	Metals	NELAP	9/27/2002
Phosphorus, total	EPA 6010	Metals	NELAP	7/1/2003
Potassium	EPA 200.7	Metals	NELAP	4/10/2002
Potassium	EPA 200.8	Metals	NELAP	11/6/2014
Potassium	EPA 6010	Metals	NELAP	4/10/2002
Potassium	EPA 6020	Metals	NELAP	8/30/2004
Residual free chlorine	SM 4500-Cl G	General Chemistry	NELAP	11/4/2010
Residue-filterable (TDS)	SM 2540 C	General Chemistry	NELAP	10/15/2007
Residue-nonfilterable (TSS)	SM 2540 D	General Chemistry	NELAP	10/15/2007

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 10/6/2020

Expiration Date: 6/30/2021



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-49, expiration date June 30, 2021. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87315**

EPA Lab Code: **GA00051**

(770) 734-4200

E87315

Pace Analytical Services, LLC- Atlanta GA

110 Technology Parkway

Peachtree Corners, GA 30092

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Residue-settleable	SM 2540 F	General Chemistry	NELAP	10/15/2007
Residue-total	SM 2540 B	General Chemistry	NELAP	10/15/2007
Residue-volatile	SM 2540 E	General Chemistry	NELAP	10/6/2016
Selenium	EPA 200.7	Metals	NELAP	4/10/2002
Selenium	EPA 200.8	Metals	NELAP	8/30/2004
Selenium	EPA 6010	Metals	NELAP	4/10/2002
Selenium	EPA 6020	Metals	NELAP	8/30/2004
Silicon	EPA 200.7	Metals	NELAP	4/10/2002
Silicon	EPA 6010	Metals	NELAP	7/1/2003
Silver	EPA 200.7	Metals	NELAP	4/10/2002
Silver	EPA 200.8	Metals	NELAP	8/30/2004
Silver	EPA 6010	Metals	NELAP	7/1/2003
Silver	EPA 6020	Metals	NELAP	8/30/2004
Sodium	EPA 200.7	Metals	NELAP	4/10/2002
Sodium	EPA 200.8	Metals	NELAP	11/6/2014
Sodium	EPA 6010	Metals	NELAP	7/1/2003
Sodium	EPA 6020	Metals	NELAP	8/30/2004
Strontium	EPA 200.7	Metals	NELAP	9/27/2002
Strontium	EPA 6010	Metals	NELAP	7/1/2003
Strontium	EPA 6020	Metals	NELAP	8/30/2004
Thallium	EPA 200.7	Metals	NELAP	4/10/2002
Thallium	EPA 200.8	Metals	NELAP	8/30/2004
Thallium	EPA 6010	Metals	NELAP	7/1/2003
Thallium	EPA 6020	Metals	NELAP	8/30/2004
Tin	EPA 200.7	Metals	NELAP	4/10/2002
Tin	EPA 200.8	Metals	NELAP	11/6/2014
Tin	EPA 6010	Metals	NELAP	7/1/2003
Tin	EPA 6020	Metals	NELAP	8/30/2004
Titanium	EPA 200.7	Metals	NELAP	4/10/2002
Titanium	EPA 200.8	Metals	NELAP	11/6/2014
Titanium	EPA 6010	Metals	NELAP	7/1/2003
Titanium	EPA 6020	Metals	NELAP	8/30/2004
Total coliforms	SM 9223 B /QUANTI-TRAY	Microbiology	NELAP	11/4/2010
Total cyanide	EPA 9010/9014	General Chemistry	NELAP	7/1/2003
Total residual chlorine	SM 4500-Cl G	General Chemistry	NELAP	11/4/2010
Total, fixed, and volatile residue	SM 2540 G	General Chemistry	NELAP	9/27/2002

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 10/6/2020

Expiration Date: 6/30/2021



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-49, expiration date June 30, 2021. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87315**

EPA Lab Code: **GA00051**

(770) 734-4200

E87315

Pace Analytical Services, LLC- Atlanta GA

110 Technology Parkway

Peachtree Corners, GA 30092

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Turbidity	EPA 180.1	General Chemistry	NELAP	4/10/2002
Vanadium	EPA 200.7	Metals	NELAP	4/10/2002
Vanadium	EPA 200.8	Metals	NELAP	8/30/2004
Vanadium	EPA 6010	Metals	NELAP	7/1/2003
Vanadium	EPA 6020	Metals	NELAP	8/30/2004
Zinc	EPA 200.7	Metals	NELAP	4/10/2002
Zinc	EPA 200.8	Metals	NELAP	8/30/2004
Zinc	EPA 6010	Metals	NELAP	4/10/2002
Zinc	EPA 6020	Metals	NELAP	8/30/2004



Laboratory Scope of Accreditation

Attachment to Certificate #: E87315-49, expiration date June 30, 2021. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87315**

EPA Lab Code: **GA00051**

(770) 734-4200

E87315

Pace Analytical Services, LLC- Atlanta GA

110 Technology Parkway

Peachtree Corners, GA 30092

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aluminum	EPA 6010	Metals	NELAP	4/10/2002
Antimony	EPA 6010	Metals	NELAP	4/10/2002
Arsenic	EPA 6010	Metals	NELAP	4/10/2002
Barium	EPA 6010	Metals	NELAP	4/10/2002
Beryllium	EPA 6010	Metals	NELAP	4/10/2002
Boron	EPA 6010	Metals	NELAP	4/10/2002
Cadmium	EPA 6010	Metals	NELAP	4/10/2002
Calcium	EPA 6010	Metals	NELAP	4/10/2002
Chromium	EPA 6010	Metals	NELAP	4/10/2002
Cobalt	EPA 6010	Metals	NELAP	4/10/2002
Copper	EPA 6010	Metals	NELAP	4/10/2002
Fecal coliforms	SM 9222 D	Microbiology	NELAP	7/28/2009
Fixed Residue	SM 2540 G-2011	General Chemistry	NELAP	10/1/2020
Iron	EPA 6010	Metals	NELAP	4/10/2002
Lead	EPA 6010	Metals	NELAP	4/10/2002
Magnesium	EPA 6010	Metals	NELAP	4/10/2002
Manganese	EPA 6010	Metals	NELAP	4/10/2002
Mercury	EPA 7471	Metals	NELAP	4/10/2002
Molybdenum	EPA 6010	Metals	NELAP	4/10/2002
Nickel	EPA 6010	Metals	NELAP	4/10/2002
pH	EPA 9045	General Chemistry	NELAP	4/10/2002
Phosphorus, total	EPA 6010	Metals	NELAP	4/10/2002
Potassium	EPA 6010	Metals	NELAP	4/10/2002
Residue-total	SM 2540 G-2011	General Chemistry	NELAP	10/1/2020
Residue-volatile	SM 2540 G-2011	General Chemistry	NELAP	10/1/2020
Selenium	EPA 6010	Metals	NELAP	4/10/2002
Silicon	EPA 6010	Metals	NELAP	4/10/2002
Silver	EPA 6010	Metals	NELAP	4/10/2002
Sodium	EPA 6010	Metals	NELAP	7/9/2002
Strontium	EPA 6010	Metals	NELAP	4/10/2002
Thallium	EPA 6010	Metals	NELAP	4/10/2002
Tin	EPA 6010	Metals	NELAP	4/10/2002
Titanium	EPA 6010	Metals	NELAP	9/27/2002
Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311	General Chemistry	NELAP	4/10/2002
Vanadium	EPA 6010	Metals	NELAP	4/10/2002
Zinc	EPA 6010	Metals	NELAP	4/10/2002

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 10/6/2020

Expiration Date: 6/30/2021



APPENDIX B

Well Installation Report(s)

November 23, 2020

Project No. 166849618

Mr. Joju Abraham, PG

Southern Company Services
241 Ralph McGill Blvd NE
Atlanta, GA 30308
jabraham@southernco.com

**PIEZOMETER INSTALLATION REPORT (B-99 THROUGH B-100)
GEORGIA POWER COMPANY – PLANT MCDONOUGH, SMYRNA, GEORGIA**

Dear Mr. Abraham,

Golder Associates Inc. (Golder) is submitting this *Piezometer Installation Report* to Southern Company Services, Inc. (SCS) and Georgia Power Company (GPC), which documents the construction of piezometers 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 of the piezometers was conducted under the oversight and direction of Timothy I. Richards, a Georgia Registered Professional Geologist (PG).

The field activities for this investigation were performed in July 2020. The field work consisted of the installation and development of two (2) piezometers. Metro conducted a survey of the installed piezometers between June and July 2020. A summary of the activities is presented below. Figure 1, Site Plan and Piezometer Location Map, presents the location of each of the newly installed piezometers.

Piezometer Drilling and Construction Activities

Piezometers B-99 and B-100 were drilled and installed by SCS at the Site in July 2020. SCS had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and well installation. A copy of SCS's bond is included in Appendix A and 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 (Timothy I. Richards). Drilling methods employed for borehole advancement were 4.25' Hollow Stem auger drilling techniques with split-spoon sampling for soil borings where applicable. The drilling equipment consisted of a full-sized CME 550 ATV-mounted drilling rig and 4.25-inch hollow stem augers (HSAs). Prior to use, and between boreholes, downhole equipment was steam cleaned.

As both piezometers were installed above bedrock, rock cores were not collected. Due to the shallow depth of the water table, B-99 was advanced to depth using only 4.25-inch HSAs. B-100 was advanced by 4.25-inch HSA, with

2-foot split spoon samples collected on 5-foot centers. Boring logs and piezometer construction records for the newly installed piezometers are included in Appendix B. The construction data are summarized in Table 1 and the locations of the piezometers are provided on Figure 1.

Piezometers were constructed within the boreholes using factory-cleaned and sealed Schedule 40 poly-vinyl chloride (PVC) products with flush-threaded fittings. Specifically, piezometer B-99 was constructed with a 5-foot section of 3-inch outer diameter (OD) and 2-inch inner diameter (ID), flush-threaded, 0.010-inch factory-slotted PVC U-Pack screens. Piezometer B-100 was constructed with a 10-foot section of 3-inch outer diameter (OD) and 2-inch inner diameter (ID), flush-threaded, 0.010-inch factory-slotted PVC U-Pack screens. The drillers filled the annulus of each U-Pack screen section with No. 1 filter sand. In each case, 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. Piezometers B-99 was installed as a flush-mounted wells and extends approximately 2.52 inches above grade; B-100 was completed as a “stick-up” and extends approximately 31.44 inches above grade. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF)-rated.

Following placement of the screen and casing, the annular space in each borehole adjacent to the screen was filled with U.S. Standard Sieve size No. 1 filter pack sand as appropriate for the formation. The filter pack sand was placed into each borehole and extends approximately 2 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. If settling occurred during pumping, additional sand was placed so that the filter sand thickness was no less than 2 feet above the screen. A filter pack seal, composed of 2 to 3 feet of hydrated time-release 3/8” coated bentonite pellets, was then placed on top of the filter pack by slowly pouring the material down the boreholes tamping it into place. The bentonite was hydrated using potable water and allowed to cure for at least two hours prior to grouting the piezometers.

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. B-99 surface piezometer surface completion consists of an 8-inch round flush mount with a 2-foot by 2-foot concrete pad. B-100 piezometer surface completion consists of a locked, aluminum protective casing and a 4-foot by 4-foot by 4-inch concrete pad with bollards. The annular space of the aluminum protective casing was filled with gravel to approximately 2 inches from top of PVC.

Piezometer Development Activities

The newly installed piezometers were developed in July 2020 in accordance with the Monitoring Well Development Procedures, dated March 2016, prepared by SCS. The piezometer screen intervals were surged and then pumped using a Reclaimer pump system. During development, water quality measurements of pH, temperature, specific conductance, and turbidity were periodically collected using field-calibrated water quality equipment after the piezometer responded to improving conditions. Development activities were conducted utilizing a SmarTroll® multimeter and a Lamotte 2020 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.

As presented in Table 2, between approximately 290 gallons were removed from B-99 and approximately 600 gallons were removed from B-100 during development. During development, attempts were made for each piezometer to achieve a turbidity value below approximately 10 nephelometric turbidity units (NTUs). Water level measurements were collected using a decontaminated electronic water level indicator, referenced to a notch (or permanent marking) at the top of the casing and recorded to within 0.01 foot.

Piezometer Survey

The newly installed piezometers were surveyed in July 2020 by Metro Engineering & Surveying Co., Inc. (James R. Green). Surveyed locations and elevations are presented on the boring/construction diagrams and a site map showing the locations of the newly installed piezometers is presented on Figure 1. The certified well survey is attached as Appendix C.

We appreciate the opportunity to assist SCS and GPC with this project. Should you have any questions or require additional information, please contact the undersigned at (770) 496-1893.

Sincerely,

Golder Associates Inc.



Brian A. Steele, PG
Senior Project Geologist



Timothy I. Richards, PG
Associate, Senior Consultant



BAS/TIR

CC: Georgia Power Company - Plant McDonough
Ben Hodges, Geologist, Georgia Power Company
Dawn L. Prell - Golder
Rachel P. Kirkman, PG - Golder

Attachments: Figure 1 - Site Plan and Piezometer Location Map
Table 1 - Summary of Piezometer Construction Details
Table 2 - Summary of Piezometer Development Data
Appendix A - SCS Drilling Bond
Appendix B - Boring Logs/Construction Diagrams, Development Forms, and Calibration Logs
Appendix C – Survey Data




https://golderassociates.sharepoint.com/sites/11950g/Shared Documents/200_Reports_Technical Work/Well Installation Reports/B99-B100 Piezometer Installation 7.2020/Plant McDonough Piezometer_B-99-B-100_Install Report - Final.docx

FIGURE 1

**SITE PLAN AND PIEZOMETER
LOCATION MAP**



LEGEND

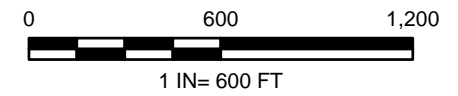
-  PIEZOMETER
-  PROPERTY BOUNDARY
-  PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE

REFERENCE

1. SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS SURVEYED BY METRO ENGINEERING



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH
 PROJECT
 B-99 THROUGH B-100 PIEZOMETER INSTALLATION

TITLE
SITE PLAN AND PIEZOMETER LOCATION MAP

CONSULTANT	YYYY-MM-DD	2020-09-22
	PREPARED	BAS
	DESIGN	BAS
	REVIEW	DP/RK
	APPROVED	

Path: C:\Users\batelie\Desktop\McDonough GIS - Other\Well Reports\B-99 to B-100.mxd

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

TABLE 1

**SUMMARY OF PIEZOMETER
CONSTRUCTION DETAILS**

TABLE 1
SUMMARY OF PIEZOMETER CONSTRUCTION DETAILS
Georgia Power Company - Plant McDonough
Smyrna, Georgia

Borehole ID	LATITUDE	LONGITUDE	NAD 83 NORTHING	NAD 83 EASTING	ELEVATION TOP OF PVC (feet NAVD88)	ELEVATION GROUND SURFACE (feet NAVD88)	Rock Type	Total Depth (feet bgs)	Depth to Bedrock (feet bgs)	Screened Interval (feet bgs)	Core Available	Water Level (feet bTOC)	Date Installed
B-99	33.833247	-84.474573	1394524.2	2203084.5	782.39	782.6	NA	12.30	NA	7.3-12.3	NA	5.93	7/7/2020
B-100	33.821507	-84.477304	1390254.8	2202242.1	777.95	775.3	NA	45.00	NA	34.8-44.8	NA	34.78	7/8/2020

Notes:

NAD - North American Datum

NAVD88 - North American Vertical Datum 1988

NA - Not Available

bgs - Below ground surface

bTOC - Below Top of Casing

TABLE 2

**SUMMARY OF PIEZOMETER
DEVELOPMENT DATA**

Table 2
Summary of Piezometer Development
Georgia Power Company - Plant McDonough
Smyrna, Georgia

Piezometer ID	Date Started	Time Started (hr:min)	Development Method	Measured Total Depth of Well (ft bTOC)	Initial Water level (ft bTOC)	Final Water Level (ft bTOC)	Volume of Casing (gal)	Total Volume Removed (gal)	pH (SU)	Specific Conductance (mS/cm)	Temp (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
B-99	7/16/2020	17:45	Reclaimer Pump	11.93	3.55	6.40	1.4	291.6	6.06	1.052	21.71	2.11	65.28	4.53
B-100	7/14/2020	13:50	Reclaimer Pump	47.58	34.65	36.40	2.1	603.3	5.42	0.968	23.41	5.78	89.19	1.88

Notes:

hr:min - hours:minutes

ft bTOC - feet below Top of Casing

gal - gallons

SU - Standard Units

mS/cm - millisiemens per centimeter

°C - degrees Celcius

NTU - nephelometric turbidity units

mV - millivolts

mg/L - milligrams per liter

ORP - oxygen reduction potential

DO - dissolved oxygen

APPENDIX A

SCS DRILLING BONDS

CONTINUATION
CERTIFICATE

SAFECO Insurance Company of America

Surety 1998

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 Surety continue said bond in force for the further period

beginning on June 30, 2019
(MONTH-DAY-YEAR)

and ending on June 30, 2020
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 (\$15,000.00)

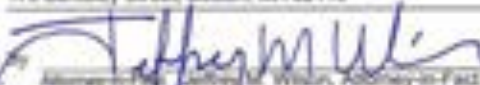
Description of bond Water Well Contractors & Drillers

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 heretofore set forth.

Signed and dated on 11/10/2020
(MONTH-DAY-YEAR)

SAFECO Insurance Company of America
175 Berkeley Street, Boston, MA 02116


Attorney-in-Fact Jeffrey M. Wilson, Attorney-in-Fact

McGriff, Seibels & Williams, Inc.
Agent
2211 7th Avenue South, Birmingham, AL 35233
Address of Agent
(205) 252-9671
Telephone Number of Agent



This Power of Attorney binds 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

Contract No. 8291221-419652

POWER OF ATTORNEY

KNOW 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 (these collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby create, constitute and appoint, David M. Gandy, Richard W. Marshall, Gary Austin, Mark W. Edmondson, III, Allen B. Perry, Robert R. Hunt, William W. Smith, Jeffrey M. Wilson

of the city of Indianapolis, state of IN, each individually if two or more than one named, his true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on his behalf as aforesaid, 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 hereon this 26th day of May, 2017.



American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

By David M. Gandy
David M. Gandy, Assistant Secretary

State of PENNSYLVANIA, in County of MONROE COUNTY

On this 26th day of May, 2017, before me personally appeared David M. Gandy, 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 as to do, execute the foregoing instrument for the purposes therein contained by signing or behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereto subscribed my name and affixed my seal and at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notary Public
David M. Gandy, Assistant Secretary

By Richard W. Marshall
Richard W. Marshall, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following Bylaws 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 attorney-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as to 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 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. Gandy, 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 to any and all undertakings, bonds, recognizances and other surety obligations.

Authentication - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signatures of any executive secretary of the Company, whenever 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, Robert C. Cleveland, 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 hereto set my hand and affixed the seals of said Companies this 26th day of May, 2017.



By Robert C. Cleveland
Robert C. Cleveland, Assistant Secretary

Not valid for mortgage, auto, loan, water or canal, currency, coin, interest rate or residential vehicle financing.

To confirm the validity of this Power of Attorney call 1-810-821-6242 (between 9:00 am and 4:30 pm EST) on any business day.

CONTINUATION
CERTIFICATE

SAFECO Insurance Company of America

Surety agent

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, 2020
(MONTH-DAY-YEAR)

and ending on June 30, 2021
(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 heretofore set forth.

Signed and dated on 11/10/2020
(MONTH-DAY-YEAR)
SAFECO Insurance Company of America
175 Berkeley Street, Boston, MA 02116

By  Jeffrey M. Wilson, Attorney-in-Fact

McGee, DeBois & Williams, Inc.
Agent
2215 7th Avenue South, Birmingham, AL 35233
Address of Agent
(205) 252-9871
Telephone Number of Agent



The Power of Attorney binds 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. 201211-016002

POWER OF ATTORNEY

KNOW 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 (taken collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, James C. Cawley, Richard D. Mitchell, Gary Austin, Mark W. Edwards, D. Alvin B. Farris, Robert R. Fowl, William W. Smith, Jeffrey M. Wilson

all of the city of Indianapolis, state of IN, each individually if there be more than one named, his true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, to and on his behalf as aforesaid and to file and record, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and that to 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 officer of the Companies and the corporate seals of the Companies have been affixed. Witness the 25 day of May, 2012.



American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

By [Signature]
Mark W. Cawley, Assistant Secretary

State of PENNSYLVANIA, ss
County of MONTGOMERY

On this 25 day of May, 2012, before me personally appeared David W. 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 to do so, executed 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 official seal as King of Phosnia, Pennsylvania, on this day and year first above written.



Notary Seal
David W. Carey, Assistant Secretary
American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

By [Signature]
David W. Carey, Assistant Secretary

The Power of Attorney is made and executed pursuant to and by authority of the following By-laws 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 here in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney

Any officer or other officer 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 execute such attorney-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 signatures and executed, such instruments shall be as binding as if signed by the President and attested by the Secretary. Any power of 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 By-laws of the Company, authorizes David W. Carey, Assistant Secretary to execute such attorney-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, whenever 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, James C. Cawley, 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 seal of said Companies this 25 day of December, 2012.



By [Signature]
James C. Cawley, Assistant Secretary

Not valid for mortgage, excise, loan, letter of credit, currency note, interest rate or reserved value guarantee.

To confirm the validity of this Power of Attorney call 1-877-633-6244 (between 9:00 am and 4:30 pm EST on any business day).

APPENDIX B

**BORING LOGS/CONSTRUCTION
DIAGRAMS, DEVELOPMENT
FORMS AND CALIBRATION LOGS**

RECORD OF BOREHOLE B-99

SHEET 1 of 1

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 12.30 ft
 LOCATION: Smyrna, GA

DRILL RIG: CME 550X
 DATE STARTED: 7/7/20
 DATE COMPLETED: 7/7/20

NORTHING: 1,394,524.2
 EASTING: 2,203,084.5
 GS ELEVATION: 782.6
 TOC ELEVATION: 782.39 ft

DEPTH W.L.: 5.93
 ELEVATION W.L.: 776.46
 DATE W.L.: 7/7/20
 TIME W.L.: 16:10

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE			REC
0	780	0.00 - 5.00 GRAVEL WITH SILT; non-native, brown to brown-tan with some red, silty, poorly graded gravel with some concrete fill, some organics, slightly weathered, non-cohesive, moist to wet, loose to compact (fill)	GW-GM		777.6	R1	1.03		<p>WELL CASING Interval: 0'-12'3" Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam</p> <p>WELL SCREEN Interval: 7'3"-12'3" Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 5'-12'3" Type: Filtersil std61 Quantity: 6 bags (50 lbs/bag)</p> <p>FILTER PACK SEAL Interval: 3'-5" Type: 3/8" Coated Pel-Plug Quantity: 1 bucket</p> <p>ANNULUS SEAL Interval: 0'-3" Type: Aquagard Bentonite Grout Quantity: 8 bags ~90 gal H2O</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: 4.25-inch ID Hollow Stem Augers Rock Drill: N/A</p>
5	775	5.00 - 9.00 GRAVEL WITH SILT; non-native, brown to brown tan with red, silty, poorly graded gravel with some concrete fill, some organics, slightly weathered, non-cohesive, wet, loose to compact (fill)	GW-GM		773.6				
10	770	9.00 - 12.30 SILTY GRAVEL; brown, tan and red, non-cohesive, wet, loose to compact (mix of fill and saprolite)	GM		770.3				
12.30		Boring completed at 12.30 ft							

BOREHOLE RECORD_MCDONOUGH MASTER LIST_BACKUP_SURVEY UPDATED (5).GPJ_PIEDMONT.GDT_10/22/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: SCS CFS
 DRILLER: S. Deuty

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 8/24/20



RECORD OF BOREHOLE B-100

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 45.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: CME 550X
 DATE STARTED: 7/8/20
 DATE COMPLETED: 7/8/20

NORTHING: 1,390,254.8
 EASTING: 2,202,242.1
 GS ELEVATION: 775.3
 TOC ELEVATION: 777.95 ft

DEPTH W.L.: 34.78
 ELEVATION W.L.: 743.17
 DATE W.L.: 7/8/20
 TIME W.L.: 15:50

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES				MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS		
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop			N-VALUE	REC
0	775	0.00 - 13.50 SILT-SILTY GRAVEL; mix of topsoil, residuum, fill, rip-rap boulders, soil; clayey silt, red-brown, micaceous, moist, moderately weathered, non-cohesive, moist, (backfilled cuttings)	ML-GM		775.0	R1	AUGER			0.00 11.00	Stick Up - Bentonite Grout Bentonite Pellets Sand Filter Pack 3" PVC 0.010 Slot	WELL CASING Interval: 0'-44'8" Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 34'8"-44'8" Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 32'2"-44'8" Type: Filtersil std61 Quantity: 6 bags (50 lbs/bag) FILTER PACK SEAL Interval: 30'-32'2" Type: 3/8" Coated Pel-Plug Quantity: 1 bucket ANNULUS SEAL Interval: 2'-30" Type: Aquagaurd Bentonite Grout Quantity: 8 bags ~90 gal H2O WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Aluminum DRILLING METHODS Soil Drill: Auger Rock Drill: N/A
5	770											
10	765											
15	760	13.50 - 18.50 SILT; with sand, gravel and trace clay, red-brown, highly weathered, non-cohesive, dry to moist, loose to compact	ML		761.8 13.50	R2	SS	3-3-2		1.45 1.50		
20	755	18.50 - 23.50 SILTY SAND; heavy organic matter (wood), red-brown with black organic matter, moderately weathered, non-cohesive, dry, loose	SM		756.8 18.50	R3	SS	3-3-2		0.60 1.50		
25	750	23.50 - 28.50 CLAYEY SAND; some organic matter, brown, slightly weathered, cohesive, w<PL, soft	SC		751.8 23.50	R4	SS	2-1-2		1.60 1.50		
30	745	28.50 - 33.50 CLAYEY SAND WITH SILT; trace organic matter, brown with some red, micaceous, moderately weathered, cohesive, w>PL, firm to soft, moist to wet	SC-SM		746.8 28.50	R5	SS	1-2-1		1.50 1.50		
35	740	33.50 - 38.50 CLAYEY SAND; some silt, red with some brown, highly weathered trace mica, cohesive, w>PL, wet, soft to very soft, trace gravel	SC		741.8 33.50	R6	SS	WH-WH-2		1.40 1.50		
40	736.8 38.50	Log continued on next page	SC		736.8 38.50	R7	SS	2-6-22		1.30 1.50		

BOREHOLE RECORD: MCDONOUGH MASTER LIST_BACKUP_SURVEY_UPDATED (5).GPJ_PIEDMONT_GDT_10/28/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: SCS CFS
 DRILLER: S. Deuty

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 8/24/20



Location resurveyed June - July 2020

RECORD OF BOREHOLE B-100

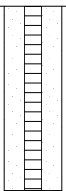
SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 45.00 ft
 LOCATION: Smyrna, GA

DRILL RIG: CME 550X
 DATE STARTED: 7/8/20
 DATE COMPLETED: 7/8/20

NORTHING: 1,390,254.8
 EASTING: 2,202,242.1
 GS ELEVATION: 775.3
 TOC ELEVATION: 777.95 ft

DEPTH W.L.: 34.78
 ELEVATION W.L.: 743.17
 DATE W.L.: 7/8/20
 TIME W.L.: 15:50

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES				MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE			REC
40	735	38.50 - 42.50 CLAYEY SAND; some gravel of gneiss (bottom 0.5'), black-brown with red, highly weathered, non-cohesive, wet, loose to compact <i>(Continued)</i>	SC	/ / / / /	732.8							<p>WELL CASING Interval: 0'-44'8" Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam</p> <p>WELL SCREEN Interval: 34'8"-44'8" Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 32'2"-44'8" Type: Filtersil std61 Quantity: 6 bags (50 lbs/bag)</p> <p>FILTER PACK SEAL Interval: 30'-32'2" Type: 3/8" Coated Pel-Plug Quantity: 1 bucket</p> <p>ANNULUS SEAL Interval: 2'-30' Type: Aquagaurd Bentonite Grout Quantity: 8 bags ~90 gal H2O</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Auger Rock Drill: N/A</p>
		42.50 - 45.00 CLAYEY SAND; some gravel, red with black and brown, highly weathered, cohesive, w~PL, firm to soft, micaceous schist gravel	SC	/ / / / /	42.50	R8	SS	4-5-12	0.00	1.50		
45	730	Boring completed at 45.00 ft			730.3							
50	725											
55	720											
60	715											
65	710											
70	705											
75	700											
80												

BOREHOLE RECORD_MCDONOUGH MASTER LIST_BACKUP_SURVEY UPDATED (5).GPJ_PIEDMONT.GDT_10/28/20

LOG SCALE: 1 in = 5 ft
 DRILLING COMPANY: SCS CFS
 DRILLER: S. Deuty

GA INSPECTOR: Chris Tidwell
 CHECKED BY: Brian Steele, PG
 DATE: 8/24/20



WELL DEVELOPMENT FIELD RECORD

page 1 of 4

PROJECT NAME / NUMBER 166847618
 WELL ID: 2
 DEVELOPED BY: J. WAGNER 252PM
 STARTED DEVEL: 07/07/17 12:45
 W.L. BEFORE DEVEL: 3.55 - 07/06/17 17:30
 WELL DEPTH BEFORE DEVEL: 11.93
 STANDING WATER COLUMN (FT): 8.38
 SCREEN LENGTH: 6.95 - 11.93

WELL ID: B-99
 WELL ID: 2
 DATE OF INSTALL: 07/21/17 17:30
 COMPLETED DEVEL: 07/21/17 17:30
 W.L. AFTER DEVEL: 6.40 - 07/21/17 17:13
 WELL DEPTH AFTER DEVEL: 11.93
 STANDING WELL VOLUME: 1.37 gal
 DRILLING WATER LOSS: gal

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	DTH (ft)	FIELD PARAMETERS								PUMP SEAM BOTTOM REMARKS
				pH (pH)	Sp. Cond (µS/cm)	TEMP (°C)	Turbidity (NTU)	Color	ROD (in)	DSP (ppm)		
07/06/17 17:50	3.5		9.55	6.12	1100.2	21.20	21000	GRAY	2.26	70.7	3" surging	
17:55	5		TOP	6.16	1190.2	20.92	21000	GRAY	3.82	77.1	RECLAIMING	
18:10	5		4.35								Surging	
18:25	7.5		9.1	6.23	1033.1	20.92	21000	GRAY	5.54	78.9		
18:30	10		TOP	6.22	1075.5	20.68	21000	GRAY	5.72	73.2		
07/17	-		3.75								RESUME DEVEL	
09:20	10		3.75	7.46	1057.6	22.73	21000	GRAY	4.07	57.6	3" surging	
09:25	15		TOP	6.40	1063.7	20.57	21000	GRAY	5.08	77.0	RECLAIMING	
09:40	15		4.5	6.13	1070.5	22.51	21000	GRAY	4.87	77.5	Surging	
09:47	20		TOP	6.13	1063.4	20.88	21000	GRAY	5.44	73.0	RECLAIMING	
10:00	20		4.5	6.10	1062.9	20.70	21000	GRAY	5.42	72.7		
10:07	25		TOP	6.08	1064.1	20.99	21000	GRAY	5.33	72.6	RECLAIMING	
10:20			4.5	6.25	1058.9	22.46	21000	GRAY	5.32	70.8	Surging	
10:27	30		TOP	6.09	1070.1	21.78	21000	GRAY	5.25	75.2	RECLAIMING	
10:38			4.5	6.12	1048.4	21.77	21000	GRAY	5.53	79.9	Surging	
10:45	35		TOP	6.09	1049.4	20.50	21000	GRAY	5.29	75.3	RECLAIMING	
10:57			4.5	6.08	1047.7	21.49	21000	GRAY	4.90	79.5	Surging	
11:05	40		TOP	6.08	1046.2	20.38	21000	GRAY	5.30	75.2	RECLAIMING	
11:17			4.5	6.10	1049.5	21.36	21000	GRAY	4.98	79.9	Surging	
11:20	45		TOP	6.09	1047.4	20.69	21000	GRAY	5.31	70.1	RECLAIMING	
11:40			4.5	6.12	1057.5	21.18	21000	GRAY	4.37	67.9	Surging	
11:48	50		TOP	6.13	1048.4	20.82	21000	GRAY	5.31	72.1	R	
11:57			4.5	6.14	1038.5	21.16	21000	GRAY	4.98	72.4	S	
12:06	55		TOP	6.11	1048.4	20.80	21000	GRAY	5.30	72.4	R	
12:17			4.5	6.12	1043.5	21.44	21000	GRAY	5.37	73.0	S	
12:24	60		TOP	6.18	1049.9	20.88	21000	GRAY	6.10	69.5	R	
12:37			4.5	6.22	1049.9	21.80	21000	GRAY	5.03	62.6	S	
12:47	65		TOP	6.18	1058.9	20.78	21000	GRAY	5.41	65.1	R	
13:01			4.5	6.13	1058.7	21.67	21000	GRAY	5.12	64.8	S	
13:09	70		TOP	6.22	1057.9	21.07	21000	GRAY	6.10	62.1	R	
13:20			4.5	6.27	1040.5	22.89	21000	GRAY	4.36	66.9	S	
13:29	75		TOP	6.17	1058.9	21.04	21000	GRAY	5.10	63.0	R	
13:41			4.5	6.21	1039.7	21.77	21000	GRAY	4.98	61.7	S	
13:50	80		TOP	6.16	1063.2	20.97	21000	GRAY	5.29	62.1	R	

* TOTAL VOLUME REMOVED (gal)

DEVELOPMENT METHOD: RECLAIMER + SurgingNOTES: TOP + TOP OF PUMP

WELL DEVELOPMENT FIELD RECORD

run 2 of 4

PROJECT NAME / NUMBER 166849618
 WELL DIA (IN) 2
 DEVELOPED BY J. WAGNER STARK
 STARTED DEVEL _____
 W.L. BEFORE DEVEL _____
 WELL DEPTH BEFORE DEVEL _____
 STANDING WATER COLUMN (FT) _____
 SCREEN LENGTH _____

WELL ID B-99
 WELL DIA (IN) 2
 DATE OF INSTALL _____
 COMPLETED DEVEL _____
 W.L. AFTER DEVEL _____
 WELL DEPTH AFTER DEVEL _____
 STANDING WELL VOLUME _____
 DRILLING WATER LOSS _____

DATE/TIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	DTW (IN)	FIELD PARAMETERS							PUMP FROM BOTTOM REMARKS
				SPH (4x1)	Sp. Cond (MG/L)	TEMP (°C)	Turbidity (NTU)	Color	ROD (mg/L)	DRP (PPM)	
07/17 14:06	80		4.5	6.15	1059.5	21.40	11000	6000	4.05	59.7	2" submerge
14:15	85		TOP	6.20	1062.4	22.91	11000	6000	6.27	56.2	RESTART
14:30			4.5	6.22	1077.4	22.15	11000	6000	5.10	64.5	submerge
14:40	90		TOP	6.22	1060.0	22.09	11000	6000	6.32	56.7	R
14:56			4.5	6.18	1081.1	22.47	11000	6000	5.97	57.2	S
15:05	95		TOP	6.22	1067.0	20.95	11000	6000	6.22	62.8	R
15:21			4.5	6.25	1048.6	22.38	11000	6000	4.96	61.1	S
15:30	100		TOP	6.25	1055.7	21.00	11000	6000	6.42	56.8	R
15:42			4.5	6.27	1056.6	21.28	11000	6000	5.62	58.0	S
15:52	105		TOP	6.22	1022.0	20.77	11000	6000	6.01	57.3	R
16:04		0.6	DTW = 6.20	6.20	1052.8	22.23	11000	6000			
16:42			3.7	6.22	1052.8	22.23	11000	6000	5.32	45.7	S
16:50	110		TOP	6.28	1057.0	20.38	11000	6000	6.26	46.2	R
17:07			4.1	6.28	1057.0	21.47	11000	6000	4.94	46.6	S
17:17	115		TOP	6.29	1066.4	20.76	11000	6000	6.27	45.6	R
17:22			4.5	6.28	1064.5	21.46	11000	6000	5.15	45.7	S
17:40	120		TOP	6.29	1061.4	21.26	11000	6000	5.27	45.7	R
17:53			4.5	6.27	1061.4	21.49	11000	6000	5.23	46.1	S
18:08	125		TOP	6.33	1069.4	21.35	11000	6000	6.47	42.0	R
07/20 08:57	125		3.8	-	-	-	11000	6000	-	-	Submerge
09:06	130		TOP	-	-	-	11000	6000	-	-	RESTART
09:17			4.5	6.18	1072.0	21.73	11000	6000	4.32	60.0	S
09:28	135		TOP	6.14	1082.4	21.22	11000	6000	6.21	55.1	R
09:50			3.7	6.15	1050.0	22.30	11000	6000	4.90	52.2	S
10:02	140		TOP	6.14	1077.0	21.76	11000	6000	6.14	50.1	R
10:18			4.5	6.16	1057.8	22.30	11000	6000	5.04	49.9	S
10:28	145		TOP	6.17	1075.6	21.27	11000	6000	6.37	45.6	R
10:47			4.5	6.19	1078.9	22.10	11000	6000	5.16	47.7	S
10:56	150		TOP	6.15	1079.6	21.08	11000	6000	6.43	45.9	R
11:13			4.5	6.19	1047.3	23.32	11000	6000	6.07	42.8	
11:23	155		TOP	6.17	1061.3	21.17	11000	6000	6.56	47.3	R
11:41			4.5	6.21	1049.5	22.30	11000	6000	4.80	47.0	
11:50	160		TOP	6.21	1066.0	21.18	11000	6000	6.53	44.1	R
12:05			4.5	6.21	1050.1	22.69	11000	6000	4.68	47.0	

* TOTAL VOLUME REMOVED (GAL)

DEVELOPMENT METHOD: RESTART + SUBMERGE

NOTES: TOP = TOP OF PUMP

WELL DEVELOPMENT FIELD RECORD

page 3 of 9

PROJECT NAME / NUMBER: 16549618
 WELL ID: 2
 DEVELOPED BY: J. WAGNER
 STARTED DEVEL: _____
 DATE: _____ TIME: _____
 W.L. BEFORE DEVEL: _____
 DATE: _____ TIME: _____
 WELL DEPTH BEFORE DEVEL: _____
 STANDING WATER COLUMN (FT): _____
 SCREEN LENGTH: _____

WELL ID: B-99
 WELL DIA (IN): 2
 DATE OF INSTALL: _____
 COMPLETED DEVEL: _____
 DATE: _____ TIME: _____
 W.L. AFTER DEVEL: _____
 DATE: _____ TIME: _____
 WELL DEPTH AFTER DEVEL: _____
 STANDING WELL VOLUME: _____ gpl
 DRILLING WATER LOSS: _____ gpl

DATE/TIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	DTW (FT)	FIELD PARAMETERS								PUMP PLANT SYSTEM REMARKS
				SPH (IN)	SPH (IN)	TEMP (°C)	Turbidity (NTU)	Color	NO ₂ (mg/L)	ORP (mV)		
07:12:13	165		TOP	6.19	1058.7	21.08	33.7	murky	6.30	46.1	3", Reclaiming	
12:19			4.5	6.20	1051.6	21.92	7.14	clear	7.77	46.7	Submerge	
12:40	170		TOP	6.21	1041.7	21.25	7.00	gray	6.73	46.3	Reclaiming	
12:57			4.5	6.23	1040.8	22.17	none	gray	6.20	46.1	Submerge	
13:07	175		TOP	6.21	1041.7	21.22	7.00	gray	6.91	46.5	R	
13:33			4.5	6.25	1044.7	22.74	7.00	gray	4.66	45.2		
13:43	180		TOP	6.23	1047.9	20.91	7.00	gray	6.87	42.8	R	
14:05			4.5	6.29	1050.9	21.31	7.00	gray	5.10	45.8		
14:15	185		TOP	6.26	1047.7	20.72	51.4	murky	7.04	42.2	R	
14:40			4.5	6.25	1054.2	21.44	none	gray	5.95	44.7	Submerge	
14:51	190		TOP	6.30	1046.0	21.08	7.00	gray	7.28	39.3	R	
15:10			4.5	6.26	1050.2	22.65	21.0	murky	6.71	41.5	S	
15:28	195		TOP	6.26	1048.5	20.76	7.00	gray	7.32	40.6	R	
15:35			4.5	6.28	1050.8	21.62	7.00	gray	6.18	39.0	S	
16:02	200		TOP	6.27	1043.1	21.17	7.00	gray	6.78	41.0	R	
16:27			4.5	6.30	1053.0	21.22	18.0	murky	6.80	51.8	Submerge	
16:37	205		TOP	6.28	1047.5	21.15	7.00	gray	7.91	42.5	R	
17:01			4.5	6.28	1048.9	22.70	7.00	gray	6.99	45.5		
17:07	210		TOP	6.27	1055.0	21.52	7.00	gray	6.81	41.7	R	
17:33			4.5	6.50	1027.7	22.82	7.00	gray	5.78	42.5	S	
17:42	215		TOP	6.29	1042.0	21.22	7.00	gray	6.29	47.6	R	
18:10			4.5	6.31	1046.6	22.78	7.00	gray	5.46	43.0	S	
18:18	220		TOP	6.28	1040.8	21.08	7.00	gray	6.85	44.8	R	
08:30-08:30			3.82				7.00	gray			Submerge	
08:39	225		TOP				7.00	gray			Reclaiming	
09:01			4.5	7.20	1043.6	21.79	7.00	gray	5.39	57.3	S	
09:08	230		TOP	6.23	1042.2	20.91	7.00	gray	6.76	63.9	R	
09:31			4.5	6.08	1051.2	35.63	7.00	murky	6.35	66.6	Submerge	
09:40	235		TOP	6.08	1046.1	21.71	7.00	gray	6.77	59.5	R	
10:09			4.5	6.12	1039.1	22.19	75.7	murky	5.35	58.0	S	
10:14	240		TOP	6.13	1042.7	21.90	7.00	gray	6.87	52.8	R	
10:41			4.5	6.14	1048.5	22.89	26.1	murky	6.17	50.8	S	
10:53	245		TOP	6.18	1052.6	21.62	7.00	gray	7.10	47.5	R	
11:17			4.5	6.29	1047.8	22.60	13.7	clear	6.63	56.6	S	

= TOTAL VOLUME REMOVED (GAL)

DEVELOPMENT METHOD: RECLAIMER + submerge

NOTES: TOP = TOP OF PUMP

166849618
J. WAGNER

B-99

page 4/4

	Vol Rem	OHV	pH	SP umh	TEMP	NTU	COLO	ROO	ORP	PUMP FROM BOTTOM + NOTES
07/21/20 11:30	250	TOP	6.17	1056.0	21.75	1000	600	6.55	49.9	5" concrete sealant
11:55		4.5	6.28	1071.1	23.14	155	CL	5.12	62.9	Substrate
12:07	255	TOP	6.14	1052.9	21.80	42.2	600	6.57	58.1	RECHARGE
12:32		4.5	6.28	1072.4	23.00	15.5	CL	5.15	66.2	S
12:41	260	TOP	6.14	1049.7	21.44	40.0	600	6.64	57.3	R
13:04		4.5	6.25	1046.6	22.80	28.4	600	5.91	63.6	S
13:19	265	TOP	6.14	1049.0	21.31	26	600	6.66	60.4	R
13:31		4.5	6.16	1036.7	22.04	32.5	600	5.78	57.6	S
13:40	270	TOP	6.18	1050.0	21.77	17	600	7.02	57.9	R
14:18		4.5	6.20	1048.0	21.85	45.7	600	4.77	62.7	
14:27	275	TOP	6.18	1047.3	21.47	20.7	600	6.76	52.7	R
14:54		4.5	6.35	1026.1	21.42	19.1	CL	6.50	67.5	
15:00	280	TOP	6.24	1030.4	21.35	22.9	600	7.12	58.8	R
15:33		4.5	6.27	1047.9	22.82	23.0	600	4.94	67.6	
15:45	285	TOP	6.24	1039.4	21.40	13.0	CL	7.07	58.5	R
16:12		4.5	6.23	1038.7	21.81	9.2	CL	6.12	55.3	
16:21	290	TOP	6.20	1037.9	21.41	4.2	CL	6.86	53.0	R
16:50		4.5		RECHARGE	RECHARGE	LOW FLOW	NEW			
17:20	DEV	COMPACTED								+ 1.6 GAL
										291.6 GAL PUNGED TOTAL

Product Name: Low-Flow System

Date: 2020-07-21 17:14:48

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Reclaimer
Tubing Type LDPE
Tubing Diameter .5 in
Tubing Length 9.5 ft

Pump placement from TOC 9.5 ft

Well Information:

Well ID B-99
Well diameter 2 in
Well Total Depth 11.93 ft
Screen Length 5 ft
Depth to Water 3.8 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4568038 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 31.2 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:58:41	300.10	22.10	6.16	1050.54	4.34	5.80	5.32	55.10
Last 5	17:03:41	600.02	21.84	6.10	1051.73	2.58	6.10	4.67	59.72
Last 5	17:08:41	900.01	21.73	6.07	1052.59	2.38	6.20	4.52	62.97
Last 5	17:13:41	1200.00	21.71	6.06	1052.17	2.11	6.40	4.53	65.28
Last 5									
Variance 0			-0.26	-0.06	1.20			-0.65	4.62
Variance 1			-0.12	-0.03	0.86			-0.14	3.25
Variance 2			-0.01	-0.01	-0.43			0.00	2.30

Notes

Development

Grab Samples

MONITORING WELL INSTALLATION LOG

JOB NO. <u>100000012</u>	PROJECT <u>Plant / McDaniel</u>	WELL NO. <u>0-100</u>	SHEET <u>1</u> OF <u>1</u>
DR. DES. <u>CAF</u>	DILLING METHOD <u>AUGER + SPLIT SPINDLE</u>	GROUND ELEV. <u>700</u>	WATER DEPTH
WEATHER <u>Sunny</u>	DILLING COMPANY <u>SEB OPS</u>	COLLAR ELEV. <u>710</u>	DATE/TIME
TEMP <u>85°</u>	DRILL NO. <u>CAF 5200</u>	DRILLER <u>S. Burt</u>	STARTED <u>07/16/10 9:00 AM</u>
			COMPLETED <u>07/16/10 1:00 PM</u>

MATERIALS INVENTORY

WELL CASING <u>2</u> IN. DIA.	WELL SCREEN <u>2</u> IN. DIA.	BENTONITE SEAL <u>3/8" CONCRETE</u>
CASING TYPE <u>Schedule 40 PVC</u>	SCREEN TYPE <u>Schedule 40 PVC</u>	INSTALLATION METHOD <u>Concrete</u>
JOINT TYPE <u>Screen to casing</u>	WELPLOT DIA. <u>2.125 in</u>	FILTER PACK STD. <u>Layers & Colloids</u>
GROUT QUANTITY <u>2 bags + 1/2 bag</u>	CENTRALIZERS <u>not used</u>	FILTER PACK TYPE <u>Filter 50 Gr. 50</u>
GROUT TYPE <u>Drypack Sub. 50</u>	DILLING MUD TYPE <u>oil</u>	INSTALLATION METHOD <u>concrete</u>

ELEV./DEPTH	SOIL/ROCK DESCRIPTION	WELL SKETCH	INSTALLATION NOTES
44			Shut up 43'
00	GROUND SURFACE		
5			Concrete 5 bags Auger + 1/2 bag + 30 pounds 1/2" Gr. 50 active to 30' BGL
10			
15			Concrete 1 bag + 1/2 bag + 10 pounds 1/2" Gr. 50 active to 30' BGL
20			
25			
30			Sand to 30' (30 lbs) + Filter 50 Gr. 50 from 44' to 32' BGL
35			Screen 44' to 32' BGL
40			
44.5	Oil contamination at 44' 8"		
			WELL DEVELOPMENT NOTES

WELL DEVELOPMENT FIELD RECORD

page 1 of 9

PROJECT NAME / NUMBER 166293602
 WELL ID (H) 2
 DEVELOPER BY J. TAG-ESPINA
 STARTED DEVEL 07/16/16 15:58
 W/L BEFORE DEVEL 31.65 @ 14:13:05
 WELL DEPTH BEFORE DEVEL 47.98
 STANDING WATER COLUMN (FT) 12.93
 SCREEN LENGTH 27-47

WELL ID B-100
 WELL ID (H) 2
 DATE OF INSTALL 07/16/16 16:58
 COMPLETED DEVEL 07/16/16 16:55
 W/L AFTER DEVEL 34.9 @ 16:55
 WELL DEPTH AFTER DEVEL 47.58
 STANDING WELL VOLUME 2.11 gal
 DRILLING WATER LOSS 0 gal

DATE/TIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	D/W (IN)	FIELD PARAMETERS							PUMP FROM BOTTOM - FT REMARKS
				PH (H=1)	Sp. GRV (G/CM3)	TEMP (°F)	Turbidity (NTU)	Conc	PO2 (mg/L)	ORP (mV)	
07/14/16 00	-	240	87.50	5.63	1011.5	23.47	1000	BAO	8.10	71.5	8" submerge
00:05	5	0.5 HP	88.0	5.57	1002.5	24.27	1000	BAO	8.76	71.3	
00:10	7.5		88.6	5.57	1002.9	24.76	1000	BAO	8.69	72.7	submerge
00:20	12.5		89.0	5.58	998.3	24.63	1000	BAO	8.61	70.2	
00:30	17.5		89.3	5.57	998.7	24.94	1000	BAO	8.55	68.6	submerge
00:40	22.5		89.9	5.56	1002.2	24.90	1000	BAO	8.59	66.6	submerge
00:50	27.5		89.4	5.54	987.4	24.49	1000	BAO	8.59	66.3	submerge
01:00	32.5		89.7	5.49	996.1	24.97	1000	BAO	8.59	67.7	submerge
01:10	37.5		89.1	5.49	987.7	24.98	1000	BAO	8.59	67.3	
01:20	42.5		89.7	5.51	989.9	24.94	1000	BAO	8.55	68.2	
01:30	47.5		89.5	5.51	993.4	24.97	1000	BAO	8.55	66.6	
01:40	52.5		89.6	5.51	990.3	24.96	1000	BAO	8.59	66.7	
01:50	57.5		89.6	5.52	990.8	24.91	1000	BAO	8.56	66.7	
02:00	62.5		89.8	5.51	991.9	24.97	1000	BAO	8.61	66.3	
02:10	67.5		89.0	5.52	992.5	24.85	1000	BAO	8.73	65.2	→ 5' submerge
02:20	72.5		89.7	5.52	993.2	24.97	1000	BAO	8.66	67.8	submerge
02:30	77.5		89.4	5.58	992.3	24.22	1000	BAO	7.94	68.7	
02:40	82.5		89.6	5.51	986.7	24.40	1000	BAO	7.14	69.6	
02:50	87.5		89.3	5.55	989.5	24.52	1000	BAO	7.70	68.8	submerge
03:00	-		35.0	AS	1000	DCM	-	submerge	submerge	submerge	submerge
03:10	90		88.6	5.51	990.2	24.81	1000	BAO	7.15	69.7	submerge
03:20	95		86.6	5.50	996.4	24.74	1000	BAO	7.00	67.8	submerge
03:30	100		85.6	5.51	995.1	24.02	1000	BAO	6.90	68.0	submerge
03:40	105		85.5	5.50	997.2	24.24	1000	BAO	6.70	68.8	
03:50	110		86.0	5.55	990.0	24.76	1000	BAO	6.50	68.0	
04:00	115		85.7	5.52	992.4	24.12	1000	BAO	6.15	65.1	
04:10	120		85.7	5.52	992.0	24.02	1000	BAO	6.51	69.2	
04:20	125		85.0	5.51	991.5	24.73	1000	BAO	6.67	69.3	
04:30	130		86.8	5.50	987.7	24.05	1000	BAO	6.66	69.0	
04:40	135		85.8	5.52	991.0	24.77	1000	BAO	6.80	69.1	
04:50	140		85.8	5.52	991.3	24.18	1000	BAO	6.83	67.3	
05:00	145		85.8	5.52	989.4	24.14	1000	BAO	6.82	67.2	
CONTINUED ON NEXT PAGE											
* TOTAL VOLUME REMOVED (GAL)											

DEVELOPMENT METHOD ACQUINGE + SUBMURGE

NOTE:

WELL DEVELOPMENT FIELD RECORD

Page 2 of 4

PROJECT NAME / NUMBER: 160899618
 WELL DIA (IN): 2
 DEVELOPED BY: J. WAGNER/SPACK
 STARTED DEVEL: 07/09/10 DATE TIME
 W.L. BEFORE DEVEL: 87.65 DATE TIME 07-09-10
 WELL DEPTH BEFORE DEVEL: 47.58
 STANDING WATER COLUMN (FT.): 12.93
 SCREEN LENGTH: 97 - 97

WELL ID: B-100
 WELL DIA (IN): 2
 DATE OF INSTALL: _____
 COMPLETED DEVEL: _____ DATE TIME _____
 W.L. AFTER DEVEL: _____ DATE TIME _____
 WELL DEPTH AFTER DEVEL: _____
 STANDING WELL VOLUME: 2.11 gal
 DRILLING WATER LOSS: _____ gal

DATE/TIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	DTH (IN)	FIELD PARAMETERS							PUMP FROM BOTTOM (ft) REMARKS	
				PH (3+1)	Sp Cond (µmhos)	TEMP (°F)	Turbidity (NTU)	Color	ROD (IN)	DRP (IN)		
07/09-09:10	-	0.5	34.68		REGW DEV	07/15						well entire screen
09:15	145		35.3	6.86	1114.8	22.78	<1000	300	5.74	51.3		5' submer
09:25	150		37.9	5.82	1108.5	21.71	<1000	300	6.22	43.0		submer
09:35	155		35.4	5.20	1190.2	21.91	<1000	300	6.61	42.7		
09:45	160		36.2	5.21	1139.9	22.74	<1000	300	6.59	43.3		
09:55	165		34.5	5.22	1133.9	23.41	<1000	300	6.58	42.7		
10:05	170		34.0	5.23	1129.4	23.05	<1000	300	6.44	42.7		
10:15	175		35.2	5.26	1104.6	22.11	<1000	300	6.60	41.9		
10:25	180		34.9	5.25	1104.7	21.71	<1000	300	6.43	41.9		
10:35	185		34.25	5.27	1102.2	21.81	<1000	300	6.47	42.9		
10:45	190		34.8	5.28	1102.0	22.47	<1000	300	6.52	43.0		
10:55	195		34.8	5.28	1100.3	22.65	<1000	300	6.55	43.1		
11:05	200		35.3	5.29	1077.9	22.76	<1000	300	6.41	42.3		
11:15	205		35.0	5.25	1073.4	22.98	<1000	300	6.41	43.2		
11:25	210		35.0	5.26	1072.2	23.05	<1000	300	6.41	46.2		
11:35	215		35.1	5.20	1091.8	23.14	<1000	300	5.42	51.7		
11:45	220		35.7	5.15	1077.7	22.25	<1000	300	6.72	41.1		
11:55	225		35.0	5.93	1087.6	22.90	<1000	300	6.50	41.7		
12:05	230		36.2	5.72	1088.0	22.32	<1000	300	6.40	46.8		
12:15	235		34.9	5.92	1085.7	22.36	<1000	300	6.33	42.7		
12:25	240		34.8	6.30	1077.0	23.43	<1000	300	6.22	44.2		
12:35	245		36.0	5.99	1070.3	22.53	<1000	300	6.78	38.8		
12:45	250		34.8	5.77	1081.0	22.54	<1000	300	6.46	38.2		
12:55	255		35.5	5.96	1072.7	22.01	<1000	300	6.59	40.9		
13:05	270		34.9	6.16	1075.3	23.13	67	TAN	6.52	41.7		
13:15	275		34.7	5.99	1073.6	22.89	32.2	TAN	6.69	39.6		
13:25	280		35.0	5.98	1073.4	23.41	46.5	CLR	6.41	39.5		
13:35	285		35.0	5.96	1071.1	23.15	33.4	CLR	6.22	41.1		Pump to 8' submer
13:45	290		35.6	6.05	1081.4	23.19	1001	300	6.79	34.3		submer
13:55	295		36.5	6.06	1076.5	23.50	<1000	300	6.84	32.8		
14:05	300		35.1	6.07	1073.7	23.45	107.7	TAN	6.93	33.0		
14:15	305		35.0	6.07	1074.7	23.19	57.1	TAN	6.95	32.1		
14:25	310		34.9	6.10	1068.7	22.87	35.0	TAN	7.07	32.6		
14:35	315		35.1	6.10	1068.7	23.08	64.8	TAN	7.07	31.9		
+ TOTAL VOLUME REMOVED (gal)												

DEVELOPMENT METHOD: RECLAIMED + submer

NOTES: _____

WELL DEVELOPMENT FIELD RECORD

run 3 of 4

PROJECT NAME / NUMBER 166249618
 WELL DIA (IN) 2
 DEVELOPED BY J. W. NOVAK
 STARTED DEVEL DATE / TIME _____
 W.L. BEFORE DEVEL _____
 WELL DEPTH BEFORE DEVEL _____
 STANDING WATER COLUMN (FT) _____
 SCREEN LENGTH _____

WELL ID B-100
 WELL DIA (IN) 2
 DATE OF INSTALL _____
 COMPLETED DEVEL DATE / TIME _____
 W.L. AFTER DEVEL _____
 WELL DEPTH AFTER DEVEL _____
 STANDING WELL VOLUME _____
 DRILLING WATER LOSS _____

DATETIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	DTH (FT)	FIELD PARAMETERS								Prof from Bottom (ft) REMARKS
				PH (IN 1)	So Cond (US/GAL)	TEMP (°C)	Turbid (NTU)	Color	ROD (INCH)	DRP (MM)		
07/5-14:45	320	0.5	35.4	6.08	1022.5	22.69	110	TRW	6.96	32.9	8'	
14:55	325		35.2	6.10	1073.0	22.78	65.6	TRW	6.93	31.4		
15:05	330		35.5	6.03	1070.8	23.17	43.8	MURKY	6.36	36.6	plug -> 3", sub	
15:15	335		35.5	6.00	1057.1	23.50	11000	BRN	6.33	40.9		
15:25	340		35.7	5.94	1065.7	23.21	71000	BRN	6.07	47.4	REG -> 2 1/2" CTG	
15:35	345		35.8	5.85	1077.7	23.48	71000	BRN	5.64	53.6		
15:45	350		35.8	5.89	1097.4	21.89	71000	BRN	6.15	53.8		
15:55	355		35.7	5.90	1091.8	22.20	69.3	TRW	6.11	51.8		
16:05	360		36.0	5.92	1092.2	22.07	90.3	TRW	6.23	49.4	subbing	
16:10	DEV	PAUSED			EQUIPMENT	ISSUES						
16:30	360		34.80		DEV	RESUMED					subbing	
16:40	365		35.80	5.83	1098.0	22.07	71000	BRN	5.68	62.3		
16:50	370		36.70	5.85	1087.5	22.00	71000	TRW	5.63	61.6		
17:00	375		36.20	5.82	1029.3	22.08	71000	BRN	5.58	61.9		
17:10	380		36.00	5.81	1089.3	22.07	71000	TRW	5.92	62.2		
17:20	385		35.40	5.75	1084.7	21.83	71000	BRN	5.21	63.7	subbing	
17:30	390		36.55	5.80	1087.1	21.22	71000	BRN	5.40	64.7		
17:40	395		35.9	5.82	1078.1	21.30	29.1	CLR	5.60	64.1		
17:50	400		36.2	5.77	1079.7	21.09	30.3	CLR	5.32	66.4		
18:00	405		36.3	5.82	1079.1	21.18	30.3	CLR	5.63	64.2		
18:10	410		36.2	5.83	1071.3	21.28	27.1	CLR	5.59	67.7		
18:20	415		35.8	5.85	1063.5	21.40	14.2	CLR	5.74	67.9	subbing	
18:30	420		36.2	5.83	1071.3	21.49	90.9	TRW	5.50	65.1		
18:40	425		36.0	5.85	1075.7	21.21	40.4	MURKY	5.79	62.9		
07/06-07:55	425		35.82		BRN	DEV	07/16				subbing, 3"	
10:05	430	0.5	35.2	5.40	1005.4	21.54	TRW	BRN	5.81	65.9		
10:25	440		35.05	5.68	1005.5	21.46	37.4	MURKY	6.40	71.1		
10:45	450		35.10	5.75	1005.1	21.89	20.1	CLR	6.33	62.3		
11:05	460		35.20	5.75	998.7	22.07	20.0	CLR	6.08	62.5	-> 5" subbing	
11:25	470		35.5	5.81	1000.6	22.47	47.9	TRW	6.41	60.6	subbing	
11:45	480		35.8	5.85	975.4	22.67	42.9	TRW	6.41	58.9		
12:05	490		35.8	5.87	992.5	22.72	18.1	CLR	6.46	57.4		
12:25	500		35.8	5.86	989.0	22.77	4.88	CLR	6.32	58.1	subbing	
12:45	510		35.8	5.77	980.4	22.75	68.6	TRW	6.57	60.0	subbing	

+ TOTAL VOLUME REMOVED (GAL)

DEVELOPMENT METHOD _____

NOTES _____

WELL DEVELOPMENT FIELD RECORD

run 409

PROJECT NAME / NUMBER 16847618
 WELL DR (IN) 2
 DEVELOPED BY J. W. ADAMS
 STARTED DEVEL _____
 DATE / TIME _____
 W/L BEFORE DEVEL _____
 IN / DATE / TIME _____
 WELL DEPTH BEFORE DEVEL _____
 STANDING WATER COLUMN (FT) _____
 SCREEN LENGTH _____

WELL ID: B-100
 WELL DR (IN) 2
 DATE OF INSTALL _____
 COMPLETED DEVEL _____
 DATE / TIME _____
 W/L AFTER DEVEL _____
 IN / DATE / TIME _____
 WELL DEPTH AFTER DEVEL _____
 STANDING WELL VOLUME _____ gpl
 DRILLING WATER LOSS _____ gpl

DATE/TIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	DTH (FT)	FIELD PARAMETERS							PUMP FROM BOTTOM REMARKS
				pH (K+)	Sp Cond (MG/L)	TEMP (C)	Turbidity (NTU)	Color	RSD (PPM)	ORP (MV)	
07/18-13:05	520	0.5	35.6	5.86	979.7	22.72	24.8	murky	6.24	61.7	5'
13:25	530		35.6	5.87	979.3	22.70	34.8	tan	6.36	61.7	
13:45	540		35.8	5.87	970.3	22.70	8.8	CLR	6.15	62.4	→ 8' sub=6
14:05	550		35.6	5.90	975.3	22.92	87.7	tan	6.53	61.3	
14:25	560		35.6	5.90	973.2	22.93	8.4	CLR	6.39	61.3	→ 8' sub=4
14:45	570		35.6	5.81	970.5	22.35	27.5	murky	5.81	67.1	
15:05	580		35.6	5.82	970.8	22.33	40.0	murky	6.04	67.3	
15:10	DEV PHASE - 60 min. 152 w/s										
15:40	580		34.8		DEV	185	8.0				
16:00	590		36.2	5.67	986.5	21.63	7.7	CLR	5.35	80.1	→ 5'
16:10	595		36.4	5.74	977.7	21.80	22.0	murky	6.27	77.5	
16:20	600		36.4	5.78	977.9	21.82	8.2	CLR	6.38	75.2	
16:55	BEGIN LOW FLOW DEVELOPMENT										
			DEV COMPLETE + 3.3 GAL								
	603.3	+ TOTAL VOLUME REMOVED (gpl)									

DEVELOPMENT METHOD RECLAIMER + SUBMERG
 NOTES _____

Product Name: Low-Flow System

Date: 2020-07-16 16:55:13

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Reclaimer
Tubing Type polyethylene
Tubing Diameter .500 in
Tubing Length 42 ft

Pump placement from TOC 42 ft

Well Information:

Well ID B-100
Well diameter 2 in
Well Total Depth 47.58 ft
Screen Length 10 ft
Depth to Water 34.8 ft

Pumping Information:

Final Pumping Rate 500 mL/min
Total System Volume 1.711659 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.2 in
Total Volume Pumped 12.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:34:05	300.09	22.96	5.52	963.99	5.91	35.40	3.23	83.70
Last 5	16:39:05	600.02	23.15	5.46	965.93	7.37	35.40	2.34	86.30
Last 5	16:44:05	900.01	23.14	5.45	966.96	5.26	35.40	2.23	87.18
Last 5	16:49:05	1200.00	23.29	5.43	968.46	4.55	35.40	2.01	88.41
Last 5	16:54:05	1500.00	23.41	5.42	968.97	5.78	35.40	1.88	89.19
Variance 0			-0.01	-0.01	1.04			-0.11	0.89
Variance 1			0.15	-0.02	1.50			-0.22	1.23
Variance 2			0.12	-0.01	0.51			-0.13	0.78

Notes

Development complete

Grab Samples

Calibration Report: Conductivity Calibration Report
2020-07-14 12:36:47
Probe: 647057
Cell Constant: 1.0477
Stability: Full

Calibration Report: Conductivity Calibration Report
2020-07-15 08:27:55
Probe: 647057
Cell Constant: 1.1573
Stability: Full

Calibration Report: Conductivity Calibration Report
2020-07-16 08:23:59
Probe: 647057
Cell Constant: 1.0632
Stability: Full

Calibration Report: Conductivity Calibration Report
2020-07-17 08:46:48
Probe: 647057
Cell Constant: 1.0496
Stability: Full

Calibration Report: ORP Calibration Report
2020-07-14 12:54:48
Probe: 647057
User Defined: 228.0 mV
Offset: 33.9 mV
Stability: Full

Calibration Report: ORP Calibration Report
2020-07-15 08:51:02
Probe: 647057
User Defined: 228.0 mV
Offset: 34.8 mV
Stability: Full

Calibration Report: ORP Calibration Report
2020-07-16 08:44:30
Probe: 647057
ZoBell's
Offset: 35.7 mV
Stability: Full

Calibration Report: ORP Calibration Report
2020-07-17 09:06:27
Probe: 647057
User Defined: 228.0 mV
Offset: 39.4 mV
Stability: Full

Calibration Report: pH Calibration Report
2020-07-14 12:51:50
Probe: 647057
4.00 to 7.00 pH
Slope: -53.81 mV/pH
Offset: 6.63 pH
7.00 to 10.00 pH
Slope: -55.07 mV/pH
Offset: 6.64 pH
Stability: Full

Calibration Report: pH Calibration Report
2020-07-15 08:47:00
Probe: 647057
4.00 to 7.00 pH
Slope: -54.18 mV/pH
Offset: 6.62 pH
7.00 to 10.00 pH
Slope: -55.99 mV/pH
Offset: 6.63 pH
Stability: Full

Calibration Report: pH Calibration Report
2020-07-16 08:40:54
Probe: 647057
4.00 to 7.00 pH
Slope: -53.54 mV/pH
Offset: 6.60 pH
7.00 to 10.00 pH
Slope: -53.64 mV/pH
Offset: 6.60 pH
Stability: Full

Calibration Report: pH Calibration Report
2020-07-17 09:03:54
Probe: 647057
4.00 to 7.00 pH
Slope: -53.47 mV/pH
Offset: 6.63 pH
7.00 to 10.00 pH
Slope: -53.92 mV/pH
Offset: 6.63 pH
Stability: Full

Calibration Report: RDO Calibration Report
2020-07-17 09:14:43
Probe: 647057
Slope: 1.0475
Offset: -0.0000
Stability: Full

Calibration Report: RDO Calibration Report
2020-07-14 13:03:38
Probe: 647057
Slope: 1.1023
Offset: -0.0000
Stability: Full

Calibration Report: RDO Calibration Report
2020-07-15 09:03:31
Probe: 647057
Slope: 1.0505
Offset: -0.0000
Stability: Nominal

Calibration Report: RDO Calibration Report
2020-07-16 09:08:35
Probe: 647057
Slope: 1.1033
Offset: -0.0000
Stability: Nominal

APPENDIX C

CERTIFIED WELL SURVEY

State Unemployment
During the 1930's
August 1937

State	1937-1938	1938-1939	1939-1940	1940-1941	1941-1942	1942-1943	1943-1944	1944-1945	1945-1946	1946-1947
Alabama	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Alaska	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Arizona	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Arkansas	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
California	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Colorado	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Connecticut	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Delaware	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
District of Columbia	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Florida	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Georgia	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Idaho	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Illinois	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Indiana	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Iowa	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Kansas	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Kentucky	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Louisiana	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Maine	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Maryland	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Massachusetts	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Michigan	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Minnesota	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Mississippi	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Missouri	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Montana	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Nebraska	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Nevada	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
New Hampshire	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
New Jersey	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
New Mexico	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
New York	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
North Carolina	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
North Dakota	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Ohio	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Oklahoma	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Oregon	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Pennsylvania	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Rhode Island	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
South Carolina	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
South Dakota	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Tennessee	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Texas	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Utah	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Vermont	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Virginia	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Washington	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
West Virginia	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Wisconsin	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Wyoming	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

Flight Deck Group
 Accounting Information
 August 1987

0279	1277 828702	2294 472472	1292288	2201 220	83 19	1277820	2294472	129498	1279
0280	1277 828703	2294 472473	1294288	2202087	828 18	1277820	2294473	229510	1280
0281	1277 828704	2294 472474	1291288	2201781	721 87	1277820	2292782	129499	1281
0282	1277 828705	2294 472475	1292288	2201942	711 76	1277820	2292941	129487	1282
0283	1277 828706	2294 472476	1292288	2202087	727 70	1277820	2293087	129478	1283
0284	1277 828707	2294 472477	1294288	2211828	718 68	1277820	2293237	129480	1284
0285	1277 828708	2294 472478	1291288	2212919	821 11	1277820	2293384	129471	1285
0286	1277 828709	2294 472479	1292288	2213010	817 64	1277820	2293534	129478	1286
0287	1277 828710	2294 472480	1294288	2222792	827 85	1277820	2293684	129471	1287
0288	1277 828711	2294 472481	1292288	2221691	727 17	1277820	2293834	129479	1288
0289	1277 828712	2294 472482	1294288	2231476	721 11	1277820	2293984	129471	1289
0290	1277 828713	2294 472483	1294288	2232567	729 71	1277820	2294134	129471	1290
0291	1277 828714	2294 472484	1294288	2242351	721 11	1277820	2294284	129471	1291
0292	1277 828715	2294 472485	1294288	2243442	717 18	1277820	2294434	129478	1292
0293	1277 828716	2294 472486	1294288	2244533	724 71	1277820	2294584	129471	1293
0294	1277 828717	2294 472487	1294288	2245624	719 16	1277820	2294734	129471	1294
0295	1277 828718	2294 472488	1294288	2246715	726 71	1277820	2294884	129471	1295
0296	1277 828719	2294 472489	1294288	2247806	733 24	1277820	2295034	129478	1296
0297	1277 828720	2294 472490	1294288	2248897	740 77	1277820	2295184	129478	1297
0298	1277 828721	2294 472491	1294288	2249988	748 30	1277820	2295334	129471	1298
0299	1277 828722	2294 472492	1294288	2251079	755 83	1277820	2295484	129471	1299
0300	1277 828723	2294 472493	1294288	2252170	763 36	1277820	2295634	129478	1300
0301	1277 828724	2294 472494	1294288	2253261	770 89	1277820	2295784	129471	1301
0302	1277 828725	2294 472495	1294288	2254352	778 42	1277820	2295934	129478	1302
0303	1277 828726	2294 472496	1294288	2255443	785 95	1277820	2296084	129471	1303
0304	1277 828727	2294 472497	1294288	2256534	793 48	1277820	2296234	129478	1304
0305	1277 828728	2294 472498	1294288	2257625	801 01	1277820	2296384	129478	1305
0306	1277 828729	2294 472499	1294288	2258716	808 54	1277820	2296534	129478	1306
0307	1277 828730	2294 472500	1294288	2259807	816 07	1277820	2296684	129478	1307
0308	1277 828731	2294 472501	1294288	2260898	823 60	1277820	2296834	129478	1308
0309	1277 828732	2294 472502	1294288	2261989	831 13	1277820	2296984	129478	1309
0310	1277 828733	2294 472503	1294288	2263080	838 66	1277820	2297134	129478	1310
0311	1277 828734	2294 472504	1294288	2264171	846 19	1277820	2297284	129478	1311
0312	1277 828735	2294 472505	1294288	2265262	853 72	1277820	2297434	129478	1312
0313	1277 828736	2294 472506	1294288	2266353	861 25	1277820	2297584	129478	1313
0314	1277 828737	2294 472507	1294288	2267444	868 78	1277820	2297734	129478	1314
0315	1277 828738	2294 472508	1294288	2268535	876 31	1277820	2297884	129478	1315
0316	1277 828739	2294 472509	1294288	2269626	883 84	1277820	2298034	129478	1316
0317	1277 828740	2294 472510	1294288	2270717	891 37	1277820	2298184	129478	1317
0318	1277 828741	2294 472511	1294288	2271808	898 90	1277820	2298334	129478	1318
0319	1277 828742	2294 472512	1294288	2272899	906 43	1277820	2298484	129478	1319
0320	1277 828743	2294 472513	1294288	2273990	913 96	1277820	2298634	129478	1320
0321	1277 828744	2294 472514	1294288	2275081	921 49	1277820	2298784	129478	1321
0322	1277 828745	2294 472515	1294288	2276172	929 02	1277820	2298934	129478	1322
0323	1277 828746	2294 472516	1294288	2277263	936 55	1277820	2299084	129478	1323
0324	1277 828747	2294 472517	1294288	2278354	944 08	1277820	2299234	129478	1324
0325	1277 828748	2294 472518	1294288	2279445	951 61	1277820	2299384	129478	1325
0326	1277 828749	2294 472519	1294288	2280536	959 14	1277820	2299534	129478	1326
0327	1277 828750	2294 472520	1294288	2281627	966 67	1277820	2299684	129478	1327
0328	1277 828751	2294 472521	1294288	2282718	974 20	1277820	2299834	129478	1328
0329	1277 828752	2294 472522	1294288	2283809	981 73	1277820	2300000	129478	1329

Plant Hardiness
 Monitoring Report
 August 2017

2017001	101301001	101441001	101443001	101445001	101447001	101449001	101451001	101453001	101455001
2017002	101301002	101441002	101443002	101445002	101447002	101449002	101451002	101453002	101455002
2017003	101301003	101441003	101443003	101445003	101447003	101449003	101451003	101453003	101455003
2017004	101301004	101441004	101443004	101445004	101447004	101449004	101451004	101453004	101455004
2017005	101301005	101441005	101443005	101445005	101447005	101449005	101451005	101453005	101455005
2017006	101301006	101441006	101443006	101445006	101447006	101449006	101451006	101453006	101455006
2017007	101301007	101441007	101443007	101445007	101447007	101449007	101451007	101453007	101455007
2017008	101301008	101441008	101443008	101445008	101447008	101449008	101451008	101453008	101455008
2017009	101301009	101441009	101443009	101445009	101447009	101449009	101451009	101453009	101455009
2017010	101301010	101441010	101443010	101445010	101447010	101449010	101451010	101453010	101455010
2017011	101301011	101441011	101443011	101445011	101447011	101449011	101451011	101453011	101455011
2017012	101301012	101441012	101443012	101445012	101447012	101449012	101451012	101453012	101455012
2017013	101301013	101441013	101443013	101445013	101447013	101449013	101451013	101453013	101455013
2017014	101301014	101441014	101443014	101445014	101447014	101449014	101451014	101453014	101455014
2017015	101301015	101441015	101443015	101445015	101447015	101449015	101451015	101453015	101455015
2017016	101301016	101441016	101443016	101445016	101447016	101449016	101451016	101453016	101455016
2017017	101301017	101441017	101443017	101445017	101447017	101449017	101451017	101453017	101455017
2017018	101301018	101441018	101443018	101445018	101447018	101449018	101451018	101453018	101455018
2017019	101301019	101441019	101443019	101445019	101447019	101449019	101451019	101453019	101455019
2017020	101301020	101441020	101443020	101445020	101447020	101449020	101451020	101453020	101455020
2017021	101301021	101441021	101443021	101445021	101447021	101449021	101451021	101453021	101455021
2017022	101301022	101441022	101443022	101445022	101447022	101449022	101451022	101453022	101455022
2017023	101301023	101441023	101443023	101445023	101447023	101449023	101451023	101453023	101455023
2017024	101301024	101441024	101443024	101445024	101447024	101449024	101451024	101453024	101455024
2017025	101301025	101441025	101443025	101445025	101447025	101449025	101451025	101453025	101455025
2017026	101301026	101441026	101443026	101445026	101447026	101449026	101451026	101453026	101455026
2017027	101301027	101441027	101443027	101445027	101447027	101449027	101451027	101453027	101455027
2017028	101301028	101441028	101443028	101445028	101447028	101449028	101451028	101453028	101455028
2017029	101301029	101441029	101443029	101445029	101447029	101449029	101451029	101453029	101455029
2017030	101301030	101441030	101443030	101445030	101447030	101449030	101451030	101453030	101455030

February 12, 2021

Project No. 166849618

Mr. Joju Abraham, PG

Southern Company Services
241 Ralph McGill Blvd NE
Atlanta, GA 30308
jabraham@southernco.com

**PIEZOMETER INSTALLATION REPORT (B-101D THROUGH B-111D)
GEORGIA POWER COMPANY – PLANT MCDONOUGH, SMYRNA, GEORGIA**

Dear Mr. Abraham,

Golder Associates Inc. (Golder) is submitting this *Piezometer Installation Report* to Southern Company Services, Inc. (SCS) and Georgia Power Company (Georgia Power), which documents the construction of piezometers 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 of the piezometers was conducted under the oversight and direction of Timothy I. Richards, a Georgia Registered Professional Geologist (PG).

The field activities for this investigation were performed in October 2020 through December 2020. The field work consisted of the installation and development of eleven (11) piezometers installed for purposes of vertical delineation of target constituents for Coal Combustion Residuals (CCR) compliance monitoring in groundwater. Metro Engineering & Surveying (Metro) conducted a survey of the installed piezometers in November 2020. A summary of the activities is presented below. Figure 1 presents the location of each of the newly installed piezometers.

Drilling and Construction Activities

Piezometers B-101D through B-111D were drilled and installed by Cascade at the site between October and November 2020. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and piezometer installation. A copy of Cascade's bond is included in Appendix A and the driller's name is provided on the boring/construction diagrams presented in Appendix B.

An experienced and licensed Golder geologist (Michael Boatman) 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 (Timothy I. Richards). Drilling methods employed for borehole advancement were 4"/6" sonic drilling technique. SCS – Civil Field Services (CFS) used air knife methodology to clear the first 10 feet of the subsurface for any utilities. The drilling equipment consisted of a Geoprobe 8140LC roto-sonic drill rig. Prior to use, and between boreholes, downhole equipment was steam cleaned.

The piezometers were installed in bedrock, and rock cores were collected. Boring logs and construction records for the newly installed piezometers are included in Appendix B. The construction data are summarized in Table 1 and the locations of the piezometers are provided on Figure 1.

Piezometers were constructed within the boreholes using factory-cleaned and sealed Schedule 40 poly-vinyl chloride (PVC) products with flush-threaded fittings. Piezometers B-101D through B-111D 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 screens. The drillers filled the annulus of each U-Pack screen section with No. 1 filter sand. In each case, 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. Piezometers were completed as “stick-ups” extending approximately 31 inches above grade, except B-110D which was completed as a flush mount. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF)-rated.

Following placement of the screen and casing, the annular space in each borehole adjacent to the screen was filled with U.S. Standard Sieve size No. 1 filter pack sand as appropriate for the formation. The filter pack sand was placed into each borehole extending approximately 2 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. If settling occurred during pumping, additional sand was placed so that the filter sand thickness was no less than 2 feet above the screen. A filter pack seal, composed of 2 to 5 feet of hydrated time-release 3/8” coated bentonite pellets, was then placed on top of the filter pack by slowly pouring the material down the boreholes tamping it into place. The bentonite was hydrated using potable water and allowed to cure for at least two hours prior to grouting the piezometers.

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. The surface completion for piezometers B-101D through B-109D and B-111D consists of a locked, aluminum protective casing and a 4-foot by 4-foot by 4-inch concrete pad with bollards. The surface completion for piezometer B-110D consists of a secure 8-inch flush mount road-box set in a 4-foot by 4-foot by 4-inch concrete pad. The annular space of the aluminum protective casings and flush mount were filled with pea gravel to approximately 2 inches from top of PVC.

Development Activities

The newly installed piezometers (B-101D through B-111D) were developed between October and December 2020 in accordance with the Monitoring Well Development Procedures, dated March 2016, prepared by SCS. Additionally, the piezometer screen intervals were surged and then pumped using a pneumatic Geotech Reclaimer® pump system. During development, water quality measurements of pH, temperature, specific conductance, and turbidity were periodically collected using field-calibrated water quality equipment after the piezometer responded to improving conditions. Due to poor recharge, B-109D and B-110D were surged by adding 15 gallons of deionized (DI) water in each well during development. The volume of DI water added was removed in addition to recharged groundwater in the piezometer, as recorded on the development logs. Similarly, B-103D did not recharge sufficiently during development. Development at B-103D was discontinued and is

incomplete due to low recovery and elevated turbidity. Prior to any sampling, this well will be further developed. Development activities were conducted utilizing a SmarTroll® multimeter and a Lamotte 2020 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.

As presented in Table 2, between approximately 36 and 153 gallons were removed from each piezometer. During development, attempts were made for each piezometer to achieve a turbidity value below 10 nephelometric turbidity units (NTUs). Water level measurements were collected using a decontaminated electronic water level indicator, referenced to a notch (or permanent marking) at the top of the casing and recorded to within 0.01 foot.

Piezometer Survey

The newly installed piezometers were surveyed in November 2020 by Metro Engineering & Surveying Co., Inc. (James R. Green). Surveyed locations and elevations are presented on the boring/construction diagrams and a site map showing the locations of the newly installed piezometers is presented on Figure 1. The certified piezometer survey is attached as Appendix C.

Closing

We appreciate the opportunity to assist SCS and GPC with this project. Should you have any questions or require additional information, please contact the undersigned at (770) 496-1893.

Sincerely,

Golder Associates Inc.



Dawn L. Prell
Senior Consultant



Timothy I. Richards, PG
Associate, Senior Consultant



BAS/TIR

CC: Georgia Power Company - Plant McDonough
Ben Hodges, Geologist, Georgia Power Company
Dawn L. Prell - Golder
Rachel P. Kirkman, PG - Golder




Attachments: Figure 1 - Site Plan and Piezometer Location Map
Table 1 - Summary of Piezometer Construction Details
Table 2 - Summary of Piezometer Development Data
Appendix A – Driller's Bond
Appendix B - Boring Logs/Construction Diagrams, Development Forms, and Calibration Logs
Appendix C – Certified Survey Data

FIGURE 1

**SITE PLAN AND PIEZOMETER
LOCATION MAP**



LEGEND

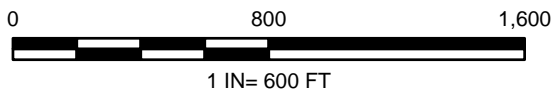
-  PIEZOMETER
-  PROPERTY BOUNDARY
-  PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE

REFERENCE

1. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY METRO ENGINEERING & SURVEYING CO., INC. (JANUARY 2021).




CLIENT
SOUTHERN COMPANY SERVICES, INC.
PLANT MCDONOUGH



PROJECT
PIEZOMETER INSTALLATION REPORT (B-101D THROUGH B-111D)

TITLE
SITE PLAN AND PIEZOMETER LOCATION MAP

CONSULTANT	YYYY-MM-DD	2020-09-22
	PREPARED	BAS
	DESIGN	BAS
	REVIEW	DP/RK
	APPROVED	TIR

Path: C:\Users\stetee\Desktop\McDonough GIS - Other\Figure 1 - Site Plan and Piezometer Location Map.mxd

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

TABLE 1

**SUMMARY OF PIEZOMETER
CONSTRUCTION DETAILS**

TABLE 1
Summary of Piezometer Construction Details
Georgia Power Company - Plant McDonough
Smyrna, Georgia

Borehole ID	Latitude	Longitude	NAD83 Northing	NAD83 Easting	Elevation Top of PVC (feet NAVD88)	Elevation Ground Surface (feet NAVD88)	Rock Type at Screen Interval	Total Depth (feet bgs)	Depth to Bedrock (feet bgs)	Screened Interval (feet bgs)	Water Level (feet bTOC)	Date Installed
B-101D	33.831990	-84.470999	1394063.6	2204168.2	824.29	821.2	Schist	75.00	60.0	64.9-74.9	34.0	11/12/2020
B-102D	33.831344	-84.470891	1393828.4	2204200.4	823.42	820.6	Schist	85.00	70.0	75.4-84.4	34.0	11/10/2020
B-103D	33.825052	-84.476091	1391543.5	2202614.4	795.96	793.8	Gneiss	70.00	18.0	60-70	12.0	10/15/2020
B-104D	33.824431	-84.477129	1391318.3	2202298.5	787.90	785.3	Gneiss	60.00	35.0	50-60	12.0	10/20/2020
B-105D	33.822547	-84.478659	1390634.5	2201831.9	779.01	776.0	Gneiss	70.00	55.0	60-70	22.5	10/19/2020
B-106D	33.832712	-84.471987	1394327.1	2203869.2	826.21	823.5	Gneiss	80.00	60.0	69.4-79.4	37.0	11/13/2020
B-107D	33.827226	-84.476158	1392334.5	2202596.4	823.38	820.6	Gneiss	85.75	67.0	75.1-85.1	21.8	10/28/2020
B-108D	33.826733	-84.477091	1392156.1	2202312.5	821.13	818.4	Gneiss	80.00	57.5	69-79	17.7	10/27/2020
B-109D	33.831682	-84.477720	1393957.5	2202127.0	850.73	847.8	Gneiss	100.00	45.0	88.4-99.4	23.5	10/31/2020
B-110D	33.824352	-84.482274	1391294.4	2200736.0	764.61	764.7	Gneiss	65.00	35.0	53-63	9.4	11/17/2020
B-111D	33.832640	-84.474992	1394303.4	2202956.4	791.87	789.1	Gneiss	85.00	27.0	74.15-84.15	8.9	11/3/2020

Notes:

NAD83 - North American Datum 1983
 NAVD88 - North American Vertical Datum 1988
 NA - Not Available
 bgs - Below ground surface
 bTOC - Below Top of Casing

TABLE 2

**SUMMARY OF PIEZOMETER
DEVELOPMENT DATA**

Table 2
Summary of Piezometer Development Data
Georgia Power Company - Plant McDonough
Smyrna, Georgia

Piezometer ID	Date Completed	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)
B-101D	12/16/2020	Reclaimer Pump	77.8	26.16	35.28	8.4	51	6.02	0.558	14.06	2.19	93.51	1.20
B-102D	12/8/2020	Reclaimer Pump	87.5	32.36	38.86	9.0	45	5.48	0.629	15.91	1.46	-7.38	0.22
B-103D ^[1]	10/30/2020	Reclaimer Pump	74.6	28.15	35.95	7.6	36	6.63	1.790	12.92	934	123.3	2.28
B-104D	10/29/2020	Reclaimer Pump	63.5	6.25	26.60	9.3	36	6.06	1.059	19.81	0.19	272.2	1.33
B-105D	11/4/2020	Reclaimer Pump	72.9	16.20	40.40	9.2	124	6.10	0.647	20.37	0.28	1184.21	1.54
B-106D	12/8/2020	Reclaimer Pump	82.2	35.33	37.19	7.6	87	5.93	0.512	16.92	4.94	84.61	0.13
B-107D	11/2/2020	Reclaimer Pump	85.3	18.35	18.83	10.9	103	5.86	0.710	18.42	3.56	215.20	0.13
B-108D	11/5/2020	Reclaimer Pump	81.9	20.25	22.60	10.1	123	6.08	0.791	18.39	4.70	-11.69	1.06
B-109D	12/16/2020	Reclaimer Pump	100.9	37.20	95.70	10.4	94 ^[2]	6.46	0.420	13.12	2.49	95.30	8.48
B-110D	12/10/2020	Reclaimer Pump	63.1	8.34	62.05	8.9	41 ^[3]	7.45	0.395	16.25	1.20	-342.70	0.93
B-111D	11/9/2020	Reclaimer Pump	85.8	9.58	14.35	12.4	153	6.88	0.827	20.03	1.16	-384.27	0.12

Notes:

bTOC - feet below Top of Casing

gal - gallons

SU - Standard Units

mS/cm - millisiemens per centimeter

°C - degrees Celsius

NTU - nephelometric turbidity units

mV - millivolts

mg/L - milligrams per liter

ORP - oxygen reduction potential

DO - dissolved oxygen

[1]: Development at B-103D discontinued/incomplete due to low recovery and elevated turbidity

[2]: 94 gallons of water were removed from B-109D, which includes approximately 15 gallons of deionized water that was added to facilitate development

[3]: 41 gallons of water were removed from B-110D, which includes approximately 15 gallons of deionized water that was added to facilitate development

APPENDIX A

DRILLER'S BOND

COPY

CONSTRUCTION
OF RTF DATE

Atlantic Specialty Insurance Company

Business Unit

Account No./No. 000515221

Contract No. JC2019-07
MCHS-19-MCHS-2

on behalf of Michael G. Rice and Candace G. Rice, P. Any direct employees, officers, and partners.
of the State of Georgia
CCH 5441

Not hereby contract was issued in State for the term period

Insuring on June 30 2019
MCHS-19-MCHS-2

Insuring on June 30 2021
MCHS-19-MCHS-2

Insuring sum Fifty Thousand and No/100 (\$20,000.00)

Amount of bond Yearly We Contractor Performance Bond

Amount \$ 20,000

PROVIDED: That this construction contract does not create a new obligation and is executed upon the original conditions and provisions that the Surety's liability under said bond and the and all free-assignment Certificates issued in connection therewith shall not be cancellable and that the total Surety's aggregate liability under said bond and the and all such Certificates of contracts on account of all default claims will during the period (regardless of the number of years said bond has been and shall be in force) shall be in an amount not to exceed the amount of said bond as hereinafter set forth.

Signed this 9th day of May 9 2019
By: _____
Michael G. Rice
Atlantic Specialty Insurance Company

By: _____
Matthew E. McCallister

Philip S. W. & Co., Inc.
Agent
2233 17th Ave. S.E. No. 1166 W.A. 05304
Atlanta Georgia
(404) 225 3800
Telephone Number of Agent

APPENDIX B

**BORING LOGS/CONSTRUCTION
DIAGRAMS, DEVELOPMENT
FORMS AND CALIBRATION LOGS**

RECORD OF BOREHOLE B-101D

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 75.00 ft
 LOCATION: Next to DGWC-9

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 11/11/20
 DATE COMPLETED: 11/12/20

NORTHING: 1394063.6
 EASTING: 2204168.2
 GS ELEVATION: 821.2 ft
 TOC ELEVATION: 824.29 ft

DEPTH W.L.: 34.0
 ELEVATION W.L.: 790.3
 DATE W.L.: 11/12/20
 TIME W.L.: 0954

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 -	<p>B-101D Borehole Diameter: 4" WELL CASING Interval: 0-75' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 64.9'-74.9' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 62.5'-75.0' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 59.0'-62.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-59.0' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</p>
5										
10		10.00 - 15.00 (SM), SILTY SAND; tannish brown to reddish brown, low plasticity, w<pl, dry, loose to soft	SM	[Dotted pattern]	10.00					
15		15.00 - 16.00 (TWR), TRANSITIONALLY WEATHERED ROCK; dark gray, deeply weathered, fine to medium, poorly jointed	TWR	[Blue triangles]	15.00	1	ROTO SONIC	8.00 10.00		
16		16.00 - 20.00 (CL), CLAY; some sand, reddish brown, fine to coarse, low plasticity, w<PL, soft, moist to wet	CL	[Diagonal lines]	16.00					
20		20.00 - 23.00 (ML), SILT; trace to some gravels, reddish brown, low plasticity, w<PL, very soft, wet	ML	[Vertical lines]	20.00	2	ROTO SONIC	4.00 5.00		
23		23.00 - 25.00 (SM), SILTY SAND; trace gravels, tannish brown to gray, non-plastic, w<PL, loose, dry, TWR	TWR	[Blue triangles]	23.00					
25		25.00 - 35.00 NO RECOVERY; material washed out of core barrel after switching to rock coring methods based on the TWR at the 23-25' interval.	NR		25.00	3	ROTO SONIC	0.00 10.00		
30										
35		35.00 - 40.00 NO RECOVERY; The core barrel was able to be advanced to depth, but casing was not able to advance to depth. Material was lost while extracting core barrel.	NR		35.00	4	ROTO SONIC	0.00 5.00	AquaGuard Bentonite Grout	
40		40.00 - 50.00 NO RECOVERY; The core barrel was able to be advanced to depth, but casing was not able to advance to depth. Material was lost while extracting core barrel.	NR		40.00	5	ROTO SONIC	0.00 10.00		
45										
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-101D

SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 75.00 ft
 LOCATION: Next to DGWC-9

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 11/11/20
 DATE COMPLETED: 11/12/20

NORTHING: 1394063.6
 EASTING: 2204168.2
 GS ELEVATION: 821.2 ft
 TOC ELEVATION: 824.29 ft

DEPTH W.L.: 34.0
 ELEVATION W.L.: 790.3
 DATE W.L.: 11/12/20
 TIME W.L.: 0954

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	50.00 - 51.00	(ML), SANDY SILT; grayish brown, low to medium plasticity, w~PL, soft to firm, moist	ML	[Symbol]	50.00	6	ROTO SONIC	9.50 10.00		<p>B-101D Borehole Diameter: 4" WELL CASING Interval: 0-75' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 64.9'-74.9' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 62.5'-75.0' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 59.0'-62.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-59.0' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</p>	
	51.00 - 52.00	(ML), SILT; trace gravels, schist fragments, grayish tan, non-plastic, non-cohesive, w<PL, loose, dry	ML	[Symbol]	51.00						
	52.00 - 52.30	(TWR), TRANSITIONALLY WEATHERED ROCK; deeply weathered, R2, well foliated, fine to medium grain, iron staining.	TWR	[Symbol]	52.30						
55	52.30 - 60.00	(ML), SANDY SILT; with gravel, grayish brown, low to medium plasticity, w~PL, soft to firm, moist	ML	[Symbol]							
60	60.00 - 70.00	(SCHIST), BEDROCK; well foliated, highly crenulated, poorly jointed, iron staining	BR	[Symbol]	60.00	7	ROTO SONIC	2.50 10.00			
65											
70	70.00 - 72.00	(ML), SANDY SILT; grayish brown, low to medium plasticity, w~PL, soft to firm, moist	ML	[Symbol]	70.00	8	ROTO SONIC	3.55 5.00			
75	72.00 - 75.00	(SCHIST), BEDROCK; well foliated, highly crenulated, poorly jointed, iron staining	BR	[Symbol]	72.00						
75	Boring completed at 75.00 ft										
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-102D

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 85.00 ft
 LOCATION: Next to DGWC-10

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 11/9/20
 DATE COMPLETED: 11/10/20

NORTHING: 1393828.4
 EASTING: 2204200.4
 GS ELEVATION: 820.6 ft
 TOC ELEVATION: 823.42 ft

DEPTH W.L.: 34.0
 ELEVATION W.L.: 789.4
 DATE W.L.: 11/10/2020
 TIME W.L.: 1444

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 -	<p>B-102D Borehole Diameter: 4" WELL CASING Interval: 0'-85' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 74.4'-84.4' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 72.0'-75.4' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 67'-72' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-67' Type: AquaGuard Bentonite Grout Quantity: Approximately 120 gallons</p> <p>NOTES</p>
10		10.00 - 15.50 (CL), CLAY; red brown, trace to some sand, fine grain, w-PL, low plasticity, soft, moist	CL		10.00	1	ROTO SONIC	6.50 10.00		
15		15.50 - 17.50 (ML), SILT; red brown, trace gravels, non-plastic to low plasticity, w<PL, soft, moist	ML		15.50					
17.50		17.50 - 20.00 (ML), SILT; tanish-orange brown to silver, nonplastic to low plasticity, soft to loose	ML		17.50					
20		20.00 - 26.00 (SM), SILTY SAND; bronze, some coarse sand, nonplastic, dry to moist	SM		20.00	2	ROTO SONIC	10.00 10.00		
26		26.00 - 30.00 (SM), SILTY SAND; gray, some coarse sand, nonplastic, non-cohesive, compact, dry to moist	SM		26.00					
30		30.00 - 40.00 (SM), SILTY SAND; gray and orange-brown, non-plastic to low plasticity, firm to compact, dry to moist, soft to firm, contains muscovite	SM		30.00	3	ROTO SONIC	9.00 10.00	AquaGuard Bentonite - Grout	
40		40.00 - 44.00 (SM), SILTY SAND; gray and orange-brown, non-plastic to low plasticity, firm to compact, dry to moist, soft to firm	SM		40.00					
44		44.00 - 46.00 (ML), SILT; gray, non-plastic to lows plasticity, soft, moist,	ML		44.00	4	ROTO SONIC	7.00 10.00		
46		46.00 - 50.00 (SM), SILTY SAND; reddish brown, non-plastic to low plasticity, very soft, wet	SM		46.00					

BOREHOLE RECORD MCDONOUGH MASTER LIST (2) (3) (1) (2), GPJ, PIEDMONT.GDT 7/19/21

Log continued on next page

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-102D

SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 85.00 ft
 LOCATION: Next to DGWC-10

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 11/9/20
 DATE COMPLETED: 11/10/20

NORTHING: 1393828.4
 EASTING: 2204200.4
 GS ELEVATION: 820.6 ft
 TOC ELEVATION: 823.42 ft

DEPTH W.L.: 34.0
 ELEVATION W.L.: 789.4
 DATE W.L.: 11/10/2020
 TIME W.L.: 1444

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		50.00 - 51.00 (SM), SILTY SAND; reddish brown, non-plastic to low plasticity, very soft, wet	SM	50.00	5	ROTO SONIC	5.00			<p>B-102D Borehole Diameter: 4" WELL CASING Interval: 0'-85' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 74.4'-84.4' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 72.0'-75.4' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 67'-72' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-67' Type: AquaGuard Bentonite Grout Quantity: Approximately 120 gallons</p> <p>NOTES</p>
		51.00 - 55.00 (SM), SILTY SAND; gray, w<PL, fine to compact, dry to moist, contains muscovite	SM	51.00			5.00			
55		55.00 - 60.00 (SM), SILTY SAND; gray to yellow orange, w<PL, fine to stiff, dry to moist, saprolitic	SM	55.00	6	ROTO SONIC	5.00	5.00		
60		60.00 - 65.00 (ML), SILT; gray to light brown, w<PL, dense, dry	ML	60.00	7	ROTO SONIC	4.00	5.00		
65		65.00 - 70.00 (TWR), TRANSITIONALLY WEATHERED ROCK; silty sand, gray, low plasticity, w<PL, stiff to hard, dry, saprolitic	TWR	65.00	8	ROTO SONIC	5.00	5.00		
70		70.00 - 75.00 (SCHIST), BEDROCK, dark gray to black, fine to medium grain, moderately foliated, poorly jointed, high crenulated, weak to strong rock, slightly to moderately weathered, feldspar, muscovite, schist.	BR	70.00	9	ROTO SONIC	5.00	5.00		
75		75.00 - 85.00 (SCHIST), BEDROCK; dark gray to black, moderately foliated, poorly jointed, high crenulated, weak to strong rock, slightly to moderately weathered, feldspar, muscovite, schist	BR	75.00	10	ROTO SONIC	7.00	10.00		
85		Boring completed at 85.00 ft								

BOREHOLE RECORD MCDONOUGH MASTER LIST (2) (3) (1) (2), GPJ PIEDMONT.GDT 7/19/21

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-103D

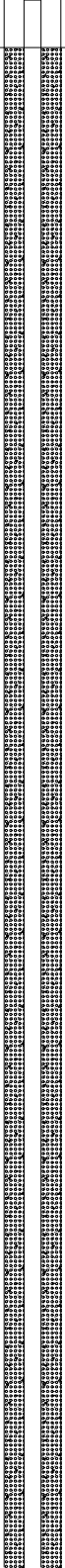
SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 70.00 ft
 LOCATION: East of DGWC-47

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 10/14/20
 DATE COMPLETED: 10/15/20

NORTHING: 1391543.5
 EASTING: 2202614.4
 GS ELEVATION: 793.8 ft
 TOC ELEVATION: 795.96 ft

DEPTH W.L.: 12.0
 ELEVATION W.L.: 783.9
 DATE W.L.: 10/15/2020
 TIME W.L.: 0740

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 - 5.00 (SM), SILTY SAND; red brown; low plasticity, moist, w<PL, loose, contains muscovite, FILL	SM	[Graphic Log: Dotted pattern]	5.00	1	ROTO SONIC	2.50 5.00	Stick-up -  AquaGuard Bentonite - Grout	B-103D Borehole Diameter: 4" WELL CASING Interval: 0'-70' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 60'-70' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 57.9'-70.0' Type: FilterSil Quantity: 3.5-50 lbs bags FILTER PACK SEAL Interval: 53.5'-57.9' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-53.5' Type: AquaGuard Bentonite Grout Quantity: Approximately 40 gallons NOTES
5		5.00 - 15.00 (ML), SILT; tan to gray-brown; low plasticity, moist, fine, w<PL, loose	ML	[Graphic Log: Horizontal lines]	15.00	2	ROTO SONIC	6.50 10.00		
15		15.00 - 18.00 (SM), SILTY SAND; dark brown, gravel; moist, non to low plasticity, w<PL	SM	[Graphic Log: Dotted pattern]	18.00	3	ROTO SONIC	5.50 5.00		
18		18.00 - 20.00 (SCHIST), BEDROCK; feldspar, biotite, muscovite, moderate to well foliated, fresh, rock	BR	[Graphic Log: Red wavy lines]	20.00	4	ROTO SONIC	10.00 12.00		
20		20.00 - 23.00 (SCHIST), BEDROCK; well foliated, poorly jointed, feldspar, quartz, muscovite	BR	[Graphic Log: Green wavy lines]	23.00	5	ROTO SONIC	5.60 8.00		
23		23.00 - 40.00 (GNEISS), BEDROCK; light to dark gray; partially foliated, poorly jointed, biotite, feldspar, quartz, locally contains garnet	BR	[Graphic Log: Red wavy lines]	40.00	6	ROTO SONIC	9.00 10.00		
40		40.00 - 70.00 (GNEISS), BEDROCK; light gray-green to dark gray; well foliated, poorly jointed, muscovite, biotite, feldspar, quartz	BR	[Graphic Log: Red wavy lines]	70.00					

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-103D

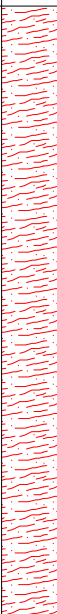
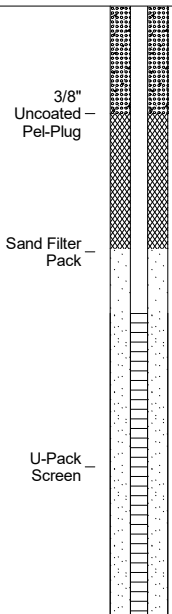
SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 70.00 ft
 LOCATION: East of DGWC-47

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 10/14/20
 DATE COMPLETED: 10/15/20

NORTHING: 1391543.5
 EASTING: 2202614.4
 GS ELEVATION: 793.8 ft
 TOC ELEVATION: 795.96 ft

DEPTH W.L.: 12.0
 ELEVATION W.L.: 783.9
 DATE W.L.: 10/15/2020
 TIME W.L.: 0740

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		40.00 - 70.00 (GNEISS), BEDROCK; light gray-green to dark gray; well foliated, poorly jointed, muscovite, biotite, feldspar, quartz <i>(Continued)</i>	BR							<p>B-103D Borehole Diameter: 4" WELL CASING Interval: 0'-70' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 60'-70' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 57.9'-70.0' Type: FilterSil Quantity: 3.5-50 lbs bags FILTER PACK SEAL Interval: 53.5'-57.9' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-53.5' Type: AquaGuard Bentonite Grout Quantity: Approximately 40 gallons</p> <p>NOTES</p>
55					7	ROTO SONIC	7.50 10.00					3/8" Uncoated Pel-Plug
60								Sand Filter Pack		
65					8	ROTO SONIC	9.65 10.00	U-Pack Screen		
70		Boring completed at 70.00 ft								
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-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-hatch pattern]				Stick-up -	<p>B-104D Borehole Diameter: 4" WELL CASING Interval: 0'-60' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 50'-60' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 47.15'-60.0' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 44'-47.15' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-44' Type: AquaGuard Bentonite Grout Quantity: Approximately 40 gallons</p> <p>NOTES</p>	
5										
10		10.00 - 12.00 (CL), CLAY; red brown; moist, soft, low plasticity, w<PL, FILL	CL	[Diagonal lines]	10.00					
15		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		
25		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			AquaGuard Bentonite - Grout		
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	4	ROTO SONIC	6.55 10.00		
40						5	ROTO SONIC	2.10 5.00		
45						6	ROTO SONIC	4.35 7.50		
50		Log continued on next page						Sand Filter -		

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

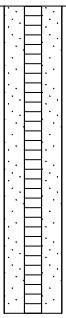
SHEET 2 of 2

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		<p>B-104D Borehole Diameter: 4" WELL CASING Interval: 0'-60' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 50'-60' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 47.15'-60.0' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 44'-47.15' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-44' Type: AquaGuard Bentonite Grout Quantity: Approximately 40 gallons</p> <p>NOTES</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-105D

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 70.00 ft
 LOCATION: East of DGWC-40

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 10/18/20
 DATE COMPLETED: 10/19/20

NORTHING: 1390634.5
 EASTING: 2201831.9
 GS ELEVATION: 776.0 ft
 TOC ELEVATION: 779.01 ft

DEPTH W.L.: 22.50
 ELEVATION W.L.: 756.5
 DATE W.L.: 10/19/2020
 TIME W.L.: 0950

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 -	<p>B-105D Borehole Diameter: 4" WELL CASING Interval: 0'-70' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 60'-70' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 57.5'-60.0' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 53.75'-57.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-53.75' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</p>
10		10.00 - 15.00 (ML), SILT; red to orange brown, some clay, low plasticity, dry to moist, w<PL, soft to firm, FILL	CL-ML		10.00					
15		15.00 - 27.00 (ML), SILT; olive brown to silvery brown, low plasticity, moist, firm, w<PL, contains muscovite			15.00	1	ROTO SONIC	9.25 10.00		
20			ML			2	ROTO SONIC	6.00 7.50		
27		27.00 - 27.50 (CL), CLAY; white, medium plasticity, firm, moist, w<PL, possible WT	CL		27.50					
27.5		27.50 - 32.50 (ML), SILT; gray/brown, fine grain, low to medium plasticity, moist, w~PL, soft to firm	ML							
32.5		32.50 - 33.80 (SM), SILTY SAND; non-plastic to low plasticity, dry to moist, fine to coarse, w<PL, loose, sand is mica (biotite/muscovite)	SM		32.50	3	ROTO SONIC	8.50 10.00		
33.8		33.80 - 37.50 (ML), SILT; gray/brown, fine grain, low to moderate plasticity, moist, w~PL, soft to firm	ML		33.80				AquaGuard Bentonite - Grout	
37.5		37.50 - 40.00 (ML), SILT; whitish gray, trace fine sand, low plasticity, moist to dry, w~PL, firm/compact, high feldspar	ML		37.50	4	ROTO SONIC	2.50 2.50		
40		40.00 - 45.00 (SM), SILTY SAND; brown to black, non-plastic to low plasticity, moist, w<PL, fine to coarse, compact to loose. Sand particles size is mica, not quartz.	SM		40.00	5	ROTO SONIC	5.00 5.00		
45		45.00 - 50.00 (SM), SILTY SAND; rock flour, trace gravels, tan brown, non-plastic, dry, fine to coarse, w<PL, loose, sand is micaceous, transitions to TWR from 48.8'-50.0'	SM		45.00	6	ROTO SONIC	5.00 5.00		

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-105D

SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 70.00 ft
 LOCATION: East of DGWC-40

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 10/18/20
 DATE COMPLETED: 10/19/20

NORTHING: 1390634.5
 EASTING: 2201831.9
 GS ELEVATION: 776.0 ft
 TOC ELEVATION: 779.01 ft

DEPTH W.L.: 22.50
 ELEVATION W.L.: 756.5
 DATE W.L.: 10/19/2020
 TIME W.L.: 0950

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		50.00 - 55.00 (SM), SILTY SAND; brown to black, low to medium plasticity, moist to dry, w<PL, loose/soft, materials is from gneiss (relief structure), TWR	SM	[Graphic Log: Dotted pattern]	50.00	7	ROTO SONIC	5.00 5.00	<p style="font-size: small;">3/8" Uncoated Pel-Plug Sand Filter Pack U-Pack Screen</p>	<p>B-105D Borehole Diameter: 4" WELL CASING Interval: 0'-70' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 60'-70' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 57.5'-60.0' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 53.75'-57.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-53.75' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</p>
55		55.00 - 70.00 (GNEISS), BEDROCK; light to dark gray, fine to medium grain, well foliated, poorly jointed, fresh to slightly weathered, strong to medium strong	BR	[Graphic Log: Red wavy lines]	55.00	8	ROTO SONIC	2.75 3.50		
60						9	ROTO SONIC	4.80 6.50		
65						10	ROTO SONIC	4.25 5.00		
70		Boring completed at 70.00 ft								
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-106D

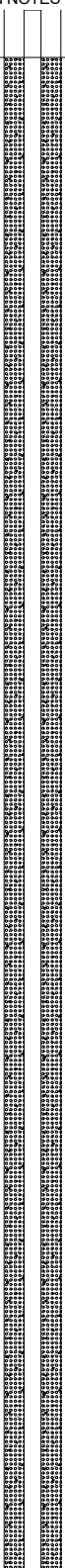
SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 80.00 ft
 LOCATION: North of DGWC-8

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 11/12/20
 DATE COMPLETED: 11/13/20

NORTHING: 1394327.1
 EASTING: 2203869.2
 GS ELEVATION: 823.5 ft
 TOC ELEVATION: 826.21 ft

DEPTH W.L.: 37.0
 ELEVATION W.L.: 789.2
 DATE W.L.: 11/13/2020
 TIME W.L.: 1652

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 - 	B-106D Borehole Diameter: 4" WELL CASING Interval: 0'-80' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 69.4'-79.4' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 66.61'-80' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 62.85'-66.61' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-62.85' Type: AquaGuard Bentonite Grout Quantity: NOTES
10		10.00 - 16.75 (ML), SILT; some fine to medium sand, some gravel, moist, firm, w<PL, low to medium plasticity	ML		10.00	1	ROTO SONIC	8.20 10.00		
16.75		16.75 - 18.10 (ML), SILT; some coarse sand, moist, stiff, w<PL	ML		16.75					
18.10		18.10 - 20.00 (CL), CLAY; red to red-brown, some coarse sand, dry to moist, w<PL, soft, some muscovite, Fill	CL		18.10					
20		20.00 - 28.00 (ML), SILT; brown, some fines, very fine to coarse sand, wet, soft to very soft, w<PL, medium plasticity,	ML		20.00	2	ROTO SONIC	10.00 10.00		
28		28.00 - 30.00 (SP), SAND; uniformly graded, some silt, non-cohesive, loose, moist, non-plastic	SP		28.00					
30		30.00 - 32.00 (SM), SILTY SAND; brown, trace gravel, dry to moist, cohesive, firm to stiff, w<PL, low plasticity, some crenulations, saprolitic	SM		30.00	3	ROTO SONIC	5.00 5.00		
32		32.00 - 35.00 (SM), SILTY SAND; dry to moist, cohesive, firm to stiff, w~PL, low to medium plasticity	SM		32.00					
35		35.00 - 40.00 (ML), SANDY SILT; brown, fine to coarse sand, micas, firm to stiff, w>PL, dry to wet	ML		35.00	4	ROTO SONIC	5.00 5.00		
40		40.00 - 45.00 (SM), SILTY SAND; brown, fine to coarse sand, some gravel, schist, quartz vein fragments, micas, firm to stiff, w<PL, moist, medium plasticity	SM		40.00	5	ROTO SONIC	5.00 5.00		
45		45.00 - 47.00 (SM), SILTY SAND; brown, fine to coarse sand, some gravel, schist, quartz vein fragments, micas, stiff to very stiff, w>PL, moist, medium plasticity, saprolitic	SM		45.00	6	ROTO SONIC	2.00		
47		47.00 - 60.00 NO RECOVERY; material too loose and continues to fall out of core barrel	NR		47.00	7	ROTO SONIC	0.00 13.00		

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-106D

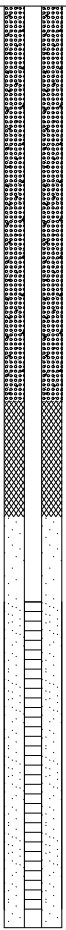
SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 80.00 ft
 LOCATION: North of DGWC-8

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 11/12/20
 DATE COMPLETED: 11/13/20

NORTHING: 1394327.1
 EASTING: 2203869.2
 GS ELEVATION: 823.5 ft
 TOC ELEVATION: 826.21 ft

DEPTH W.L.: 37.0
 ELEVATION W.L.: 789.2
 DATE W.L.: 11/13/2020
 TIME W.L.: 1652

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		47.00 - 60.00 NO RECOVERY; material too loose and continues to fall out of core barrel (Continued)	NR			7	ROTO SONIC	0.00 13.00	 <p style="font-size: small; text-align: center;">3/8" Uncoated - Pel-Plug</p> <p style="font-size: small; text-align: center;">Sand Filter Pack</p> <p style="font-size: small; text-align: center;">U-Pack Screen</p>	<p>B-106D Borehole Diameter: 4" WELL CASING Interval: 0'-80' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 69.4'-79.4' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 66.61'-80' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 62.85'-66.61' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-62.85' Type: AquaGuard Bentonite Grout Quantity:</p> <p>NOTES</p>
55										
60		60.00 - 65.00 (SCHIST), BEDROCK; silvery blue, well foliated, poorly jointed, moderate to deeply weathered, weak to medium strong rock, iron staining	BR	[Graphic Log]	60.00	8	ROTO SONIC	1.60 5.00		
65		65.00 - 75.00 (BIOTITE GNEISS), BEDROCK; light gray to dark gray, zones of muscovite schistosity, very fine grain, moderate to poor foliation, poorly jointed, fresh to moderately weathered, medium strong, iron staining, feldspar, quartz, muscovite	BR	[Graphic Log]	65.00	9	ROTO SONIC	5.20 10.00		
70										
75		75.00 - 80.00 (BIOTITE GNEISS), BEDROCK; light gray to dark gray, zones of muscovite schistosity, very fine grain, moderate to poor foliation, poorly jointed, fresh to moderately weathered, medium strong, iron staining, feldspar, quartz	BR	[Graphic Log]	75.00	10	ROTO SONIC	3.40 5.00		
80		Boring completed at 80.00 ft								
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-107D

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 85.75 ft
 LOCATION: Southwest of DGWC-19

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 10/28/20
 DATE COMPLETED: 10/28/20

NORTHING: 1392334.5
 EASTING: 2202596.4
 GS ELEVATION: 820.6 ft
 TOC ELEVATION: 823.38 ft

DEPTH W.L.: 21.8
 ELEVATION W.L.: 801.6
 DATE W.L.: 10/28/2020
 TIME W.L.: 1440

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 -	<p>B-107D Borehole Diameter: 4" WELL CASING Interval: 0'-85.1' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 75.1'-85.1' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 72.25'-85.5' Type: FilterSil Quantity: 4.5-50 lbs bags FILTER PACK SEAL Interval: 68.8'-72.25' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon ANNULUS SEAL Interval: 0'-68.8' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</p>
10		10.00 - 20.00 (CL-ML), SILTY and CLAY; red brown to brown, trace sand, low to medium plasticity, soft to firm, moist, contains muscovite	CL-ML		10.00	1	ROTO SONIC	7.00 10.00		
20		20.00 - 38.00 (SM), SILTY SAND; brown to tannish brown, trace sand, w<PL, low plasticity, loose to compact, large grains of muscovite	SM		20.00	2	ROTO SONIC	4.30 10.00		
35		38.00 - 40.00 (SM), SILTY SAND; black and silverish gray, fine to medium, non-plastic, w<PL, loose sand, moist,	SM		38.00	3	ROTO SONIC	10.00 10.00	AquaGuard Bentonite - Grout	
40		40.00 - 50.00 (SM-ML), SILTY SAND to SILT; brown to silverish brown, moist to wet, w<PL, soft to stiff	SM		40.00	4	ROTO SONIC	9.00 10.00		
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-107D

SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 85.75 ft
 LOCATION: Southwest of DGWC-19

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 10/28/20
 DATE COMPLETED: 10/28/20

NORTHING: 1392334.5
 EASTING: 2202596.4
 GS ELEVATION: 820.6 ft
 TOC ELEVATION: 823.38 ft

DEPTH W.L.: 21.8
 ELEVATION W.L.: 801.6
 DATE W.L.: 10/28/2020
 TIME W.L.: 1440

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		50.00 - 60.00 (SM-ML), SILTY SAND to SILT; brown to silverish brown, moist to wet, w<PL, soft to stiff	SM	[Graphic Log: Dotted pattern]	50.00	5	ROTO SONIC	6.00 10.00		<p>B-107D Borehole Diameter: 4" WELL CASING Interval: 0'-85.1' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 75.1'-85.1' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 72.25'-85.5' Type: FilterSil Quantity: 4.5-50 lbs bags FILTER PACK SEAL Interval: 68.8'-72.25' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon ANNULUS SEAL Interval: 0'-68.8' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</p>
55										
60		60.00 - 67.00 NO RECOVERY; material was washed away by coring methods. Material from 63' to 67' is inferred as TWR.	NR	[Graphic Log: Blank]	60.00	6	ROTO SONIC	0.00 7.00		
65										
70		67.00 - 75.00 (GNEISS), BEDROCK; dark gray to black, well foliated, poorly jointed, slightly to deeply weathered, weak to medium strong, feldspar, quartz, muscovite,	BR	[Graphic Log: Red wavy lines]	67.00	7	ROTO SONIC	6.70 8.00	3/8" Uncoated Pel-Plug	
75								Sand Filter Pack		
80		75.00 - 85.75 (GNEISS), BEDROCK; dark gray to black, well foliated, poorly jointed, slightly to deeply weathered, weak to medium strong, feldspar, quartz, muscovite,	BR	[Graphic Log: Red wavy lines]	75.00	8	ROTO SONIC	6.80 10.75	U-Pack Screen	
85		Boring completed at 85.75 ft			85.75					
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-108D


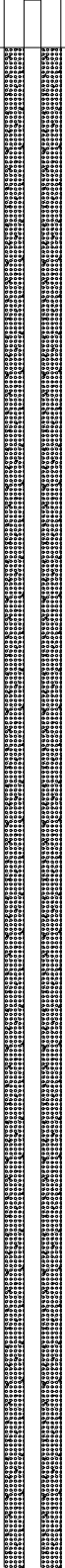





SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 80.00 ft
 LOCATION: Next to DGWC-20

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 10/26/20
 DATE COMPLETED: 10/27/20

NORTHING: 1392156.1
 EASTING: 2202312.5
 GS ELEVATION: 818.4 ft
 TOC ELEVATION: 821.13 ft

DEPTH W.L.: 17.7
 ELEVATION W.L.: 803.43
 DATE W.L.: 10/27/2020
 TIME W.L.: 0915

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-108D Borehole Diameter: 4" WELL CASING Interval: 0'-80.0' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 69'-79' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 65.85'-79' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 62.5'-65.85' Type: 3/8" Uncoated Pel-Plug Quantity: 1- 5 gallon bucket ANNULUS SEAL Interval: 0'-62.5' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons NOTES
10		10.00 - 12.00 (CL), CLAY:w<PL, low plasticity, moist to wet, Fill	CL		10.00					
15		12.00 - 20.00 (ML), SILT; tannish brown with black spots, trace fine sand, w<PL, non-plastic to low plasticity, compact to firm, moist	ML		12.00	1	ROTO SONIC	10.00 10.00		
20		20.00 - 30.00 (ML), SILT; tannish brown with black/silver spots, trace to some fine sand, w<PL, low plasticity, dry to moist, firm, saprolite, deeply weather biotite gneiss	ML		20.00	2	ROTO SONIC	9.50 10.00		
30		30.00 - 40.00 (ML-SM), SILT and SILTY SAND; silverish brown, trace clay, w<PL, nonplastic to low plasticity, moist, firm to stiff, contains muscovite, saprolite	SM		30.00	3	ROTO SONIC	8.00 10.00		
40		40.00 - 50.00 (ML-SM), SILT and SILTY SAND; silverish brown, trace clay, w<PL, nonplastic to low plasticity, moist, soft to firm, contains muscovite, saprolite	SM		40.00	4	ROTO SONIC	6.75 10.00		
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-108D

SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 80.00 ft
 LOCATION: Next to DGWC-20

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 10/26/20
 DATE COMPLETED: 10/27/20

NORTHING: 1392156.1
 EASTING: 2202312.5
 GS ELEVATION: 818.4 ft
 TOC ELEVATION: 821.13 ft

DEPTH W.L.: 17.7
 ELEVATION W.L.: 803.43
 DATE W.L.: 10/27/2020
 TIME W.L.: 0915

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		50.00 - 51.00 (SP), SAND; black to dark gray, w<PL, non-plastic, firm, loose, wet	SP	[SP Pattern]	50.00					<p>B-108D Borehole Diameter: 4" WELL CASING Interval: 0'-80.0' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 69'-79' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 65.85'-79' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 62.5'-65.85' Type: 3/8" Uncoated Pel-Plug Quantity: 1- 5 gallon bucket ANNULUS SEAL Interval: 0'-62.5' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</p>
55		51.00 - 57.50 (ML), SILT; gray to brown, w<PL, low plasticity, firm to stiff, moist, saprolite	ML	[ML Pattern]	51.00	5	ROTO SONIC	7.50 7.50		
60		57.50 - 65.00 (GNEISS), BEDROCK; dark brown to gray, well foliated, poorly jointed, deeply weathered, weak rock, iron staining	BR	[BR Pattern]	57.50	6	ROTO SONIC	1.25 7.50		
65		65.00 - 75.00 (GNEISS), BEDROCK; dark brown to gray, well foliated, poorly jointed, fresh to slightly weathered, medium strong rock, iron staining	BR	[BR Pattern]	65.00	7	ROTO SONIC	6.55 10.00		
70			BR	[BR Pattern]	75.00	8	ROTO SONIC	4.80 5.00	Sand Filter Pack U-Pack Screen	
75			BR	[BR Pattern]	75.00	8	ROTO SONIC	4.80 5.00		
80		Boring completed at 80.00 ft								
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

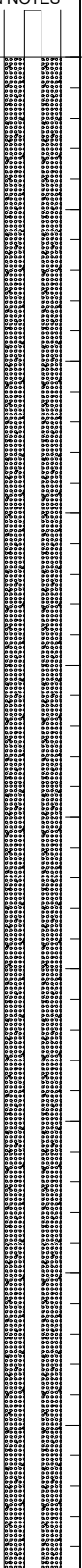
SHEET 1 of 2

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-109D Borehole Diameter: 4" WELL CASING Interval: 0'-100' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 89.4'-99.4' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 86.5'-99.4' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 83.9'-86.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-83.9' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons NOTES
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) (3) (1) (2).GPJ PIEDMONT.GDT 7/19/21

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	[Red wavy lines]		6	ROTO SONIC	4.20 10.00		<p>B-109D Borehole Diameter: 4" WELL CASING Interval: 0'-100' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 89.4'-99.4' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 86.5'-99.4' Type: FilterSil Quantity: 4-50 lbs bags FILTER PACK SEAL Interval: 83.9'-86.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-83.9' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</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	[Red wavy lines]	55.00	7	ROTO SONIC	8.25 10.00		
60			BR	[Red wavy lines]		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	[Red wavy lines]	65.00	9	ROTO SONIC	5.00 5.00		
70			BR	[Red wavy lines]		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	[Red wavy lines]	80.00	11	ROTO SONIC	5.00 5.00		
80		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	[Red wavy lines]	85.00	12	ROTO SONIC	8.40 10.00		
85			BR	[Red wavy lines]				3/8" Uncoated Pel-Plug		
90			BR	[Red wavy lines]				Sand Filter Pack		
95			BR	[Red wavy lines]				U-Pack Screen		
100		Boring completed at 100.00 ft								

BOREHOLE RECORD MCDONOUGH MASTER LIST (2) (3) (1) (2), GPJ PIEDMONT.GDT 7/19/21

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-110D

SHEET 1 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 65.00 ft
 LOCATION: Next to DGWC-68A

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 11/14/20
 DATE COMPLETED: 11/17/20

NORTHING: 1391294.4
 EASTING: 2200736
 GS ELEVATION: 764.7 ft
 TOC ELEVATION: 764.61 ft

DEPTH W.L.: 9.35
 ELEVATION W.L.: 755.3
 DATE W.L.: 11/17/2020
 TIME W.L.: 1110

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 - 5.00 Hand Auger 0'-10'; core loss from 0'-5',	NR					Flush mount -	<p>B-110D Borehole Diameter: 4" WELL CASING Interval: 0'-65' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 53'-63' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 50.5'-63' Type: FilterSil Quantity: 3.5-50 lbs bags FILTER PACK SEAL Interval: 46'-50.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-46' Type: AquaGuard Bentonite Grout Quantity: Approximately 85 gallons</p> <p>NOTES</p>
5		5.00 - 8.50 (CL), CLAY; reddish brown to yellowish orange, trace to some fine to medium sand, moist, low plasticity, w<PL, soft to firm, Fill	CL	[Diagonal Hatching]	5.00	1	ROTO SONIC	7.00 12.00	
10		8.50 - 12.00 (ML), SILT; brown to dark brown, trace fine sand, moist, non-plastic, w<PL, soft	ML	[Vertical Lines]	8.50				
15		12.00 - 20.00 (ML), SILT; brown to dark brown, some fine sand, moist, non-plastic, w<PL, soft	ML	[Vertical Lines]	12.00	2	ROTO SONIC	3.00 8.00	
20		20.00 - 25.00 (ML), SILT; brown to dark brown, some fine sand, moist, non-plastic, w<PL, firm to stiff	ML	[Vertical Lines]	20.00	3	ROTO SONIC	3.00 5.00	
25		25.00 - 35.00 NO RECOVERY; material too loose and soft to stay in core barrel	NR		25.00	4	ROTO SONIC	0.00 10.00	
35		35.00 - 45.00 (GNEISS), BEDROCK; biotite, feldspar, quartz, light gray to white, well foliated, poorly jointed, fine-to medium-grained, fresh to slightly weathered, strong rock, locally contains vein quartz and garnets	BR	[Red Wavy Hatching]	35.00	5	ROTO SONIC	6.40 10.00	
45		45.00 - 55.00 (GNEISS), BEDROCK; biotite, feldspar, quartz, light gray to white, well foliated, poorly jointed, veing quartz, fine to medium-grained, fresh to slightly weathered, strong rock, zones of fine-grained biotite	BR	[Red Wavy Hatching]	45.00	6	ROTO SONIC	8.70 10.00	
50		Log continued on next page						3/8" Uncoated Pel-Plug	

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-110D

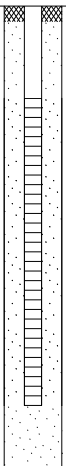
SHEET 2 of 2

PROJECT: Plant McDonough
 PROJECT NUMBER: 1668496.18
 DRILLED DEPTH: 65.00 ft
 LOCATION: Next to DGWC-68A

DRILL RIG: Geoprobe 8140LC
 DATE STARTED: 11/14/20
 DATE COMPLETED: 11/17/20

NORTHING: 1391294.4
 EASTING: 2200736
 GS ELEVATION: 764.7 ft
 TOC ELEVATION: 764.61 ft

DEPTH W.L.: 9.35
 ELEVATION W.L.: 755.3
 DATE W.L.: 11/17/2020
 TIME W.L.: 1110

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		45.00 - 55.00 (GNEISS), BEDROCK; biotite, feldspar, quartz, light gray to white, well foliated, poorly jointed, veing quartz, fine to medium-grained, fresh to slightly weathered, strong rock, zones of fine-grained biotite <i>(Continued)</i>	BR			6	ROTO SONIC	8.70 10.00		<p>B-110D Borehole Diameter: 4" WELL CASING Interval: 0'-65' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 53'-63' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 50.5'-63' Type: FilterSil Quantity: 3.5-50 lbs bags FILTER PACK SEAL Interval: 46'-50.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-46' Type: AquaGuard Bentonite Grout Quantity: Approximately 85 gallons</p> <p>NOTES</p>
55		55.00 - 60.00 (GNEISS), BEDROCK; biotite, feldspar, quartz, light gray to white, well foliated, poorly jointed, veing quartz, fine to medium grain, fresh to slightly weathered, strong rock, local zones of fine-grained biotite	BR		55.00	7	ROTO SONIC	5.00 5.00		
60		60.00 - 65.00 (GNEISS), BEDROCK; biotite, feldspar, quartz, light gray to white, well foliated, poorly jointed, veing quartz, fine-to medium-grained, fresh to slightly weathered, strong rock, local zones of fine grained biotite	BR		60.00	8	ROTO SONIC	4.00 5.00		
65		Boring completed at 65.00 ft								
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-111D


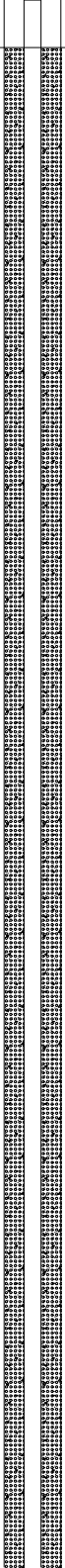




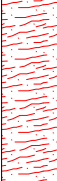
SHEET 1 of 2

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 -	B-111D Borehole Diameter: 6" WELL CASING Interval: 0'-85' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 74.15'-84.15' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 72.1'-84.15' Type: FilterSil Quantity: 3-50 lbs bags FILTER PACK SEAL Interval: 68.7'-72.1' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-68.7' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons NOTES	
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			REC
50			BR		51.50				<p>B-111D Borehole Diameter: 6" WELL CASING Interval: 0'-85' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam WELL SCREEN Interval: 74.15'-84.15' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC FILTER PACK Interval: 72.1'-84.15' Type: FilterSil Quantity: 3-5 lbs bags FILTER PACK SEAL Interval: 68.7'-72.1' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0'-68.7' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons</p> <p>NOTES</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



WELL DEVELOPMENT FIELD RECORD

105
revised

PROJECT NAME / LOCATION Plant McDough

WELL ID: B-101 D

DEVELOPER BY Yong Chang Gao
STARTED DATE 12/1/20 8:30 pm

DATE OF INSTALL _____
COMPLETED LEVEL _____

WELL DEPTH BEFORE DRIVE 26.4 199 0.51 pm

WELL AFTER DRIVE _____

WELL DEPTH AFTER DRIVE 41.8

WELL DEPTH AFTER DRIVE _____

STANDING WATER (WELL CASE) 61.64

STANDING WELL (WELL CASE) _____

SCREEN LENGTH 10

SCREENING WATER LOSS _____

DATE/TIME	WELL CASE DEPTH (m)	PLUGGING DATE (MM)	STW (m)	FIELD PARAMETERS							REMARKS	
				API (m/s)	Sp. Grav. (g/cm ³)	TEMP (°C)	TEMP (°F)	COND	PH	ORP (mV)		
12/1/20 8:30 pm	=	0.0	24.78									
8:40 pm	5	0										
3:44 pm		0.5	68.03	744	0.38	9.63	14.3		11.24	96.2		run pump @ 75' stop pump for 24 min
3:58 pm		0.38	71.5									getting dry, air trapped in tube
4:11 pm		"	72									
4:19 pm		0	69.51									
4:27 pm		0	67.6									
4:38 pm		0.5	67.27									
4:45 pm		"	61.8									
4:48	10	0	72									stop pumping

DEVELOPMENT METHOD: surging and reclaimer pump

NOTES: stop development to allow recharge.

PROJECT NAME / LOCATION Plant McDonough

WELL NO B-101 D

14710520

WELL ON ON
DEVELOPED BY Siang Cheng Soo
STARTED DATE 11/8/2005 830

DATE OF INSTALL _____
COMPLETION DATE _____

WELL BEARING BEFORE LEVEL 26.72 117.1 216

BE AFTER BEARING _____

WELL DEPTH BEFORE LEVEL _____
STANDARD WATER COLUMN (FT) _____
OBSERVED QUALITY 1.0

WELL DEPTH AFTER LEVEL _____
STANDARD WELL HEAD LOSS _____
OBSERVED WATER LOSS _____

DATE/TIME	WELL HEAD LOSS (PSI)	PUMPING RATE (GPM)	TYPE OF LOG	FIELD PARAMETERS								REMARKS						
				pH	Sp. Cond. (µmhos/cm)	TDS (mg/L)	Temp. (°F)	Time	Flow (gpm)	Temp (°C)								
8:00	0	0.5	26.72															
8:07		"	40.62	83.0	0.61	22.2	10.15			6.72	109.9							pump @ 7.5
8:11		"	50.02	83.0	0.78	5.66	78			1.13	92.3							
8:16		"	62.02	83.0	0.35	2.69	51			6.8	84.4							
8:19		"	70.71	78.8	0.28	2.76	11.5			7.6	78.3							
8:22		"	71.31	76.7	0.52	11.8	62.0			6.0	83.5							pump @ 13.5
8:22		"	69.46															pump @ 13.5
8:42		"	65.00															
8:47		"	62.77															
8:52		"	60.72															
9:07		"	58.05															
10:05	0.05	0.25	65.30															
10:06	0.15	0.25	61.25	62.82	0.53	10.0	26.7			6.0	84.9							pump @ 3.0
10:25	0.00	"	59.78	63.5	0.75	11.30	85			8.11	80.3							
10:35	0.00	"	59.18	63.8	0.51	11.30	67.0			2.78	81.6							
10:45		"	57.45	63.5	0.52	12.58	40			6.51	79.8							
10:49		"																
10:49		"	57.40															
11:12		"	50.34															
11:49	0.1	0.25	49.0															
12:08	0.1	0.25	58.71	63.71	0.57	12.45	46.0			6.44	63.4							pump @ 3.1
12:10	0.1	"	60.5	63.6	0.62	13.02	37.1			6.66	62.1							
12:20	0.1	"	60.5	64.0	0.55	13.7	17.0			3.8	78							
12:30		0.75	27.08															
12:35		0.75	27.08															
13:08	0.20	0.25	60.65	63.2	0.55	12.0	30.0			5.20	66.9							turbidity = 11 cph
13:45	0.20	0.25	58.5	63.8	0.53	10.30	28.3			2.93	76.9							
13:55	0.25	0.25	61.7	63.8	0.52	10.85	21.0			4.31	76.2							
14:02	0.25	0.25	67.20	63.1	0.52	10.81	23.2			7.16	78.3							
14:15	0.25	0.25	68.10	64.7	0.52	11.77	21.4			6.88	77.7							stop pump @ 2' (after 14:15)
14:30	0	0	27.08															

DEVELOPMENT METHOD: surging and reclaimer pump

NOTES: TRP = Top of Pump.

PROJECT NAME / NUMBER Plant McDonough

WELL NO: R-101 D

WELL ON BY 2
DEVELOPER George Hong Sr
STARTED DATE 12/23/2010

DATE OF INSTALL _____
COMPLETED DATE _____

WELL BEFORE DEVEL 26.25 12/17 846

WELL AFTER DEVEL _____

WELL DEPTH BEFORE DEVEL _____

WELL DEPTH AFTER DEVEL _____

STANDING WATER COLUMN (FT) 10

STANDING WELL TO LANE _____

SCREEN LENGTH _____

SPILLING WATER LOSS _____

12/23/10

DATE/TIME	WELLBID PRODUCTION (GPM)	PLUMPED RATE (GPM)	FLOW (GPM)	FIELD PARAMETERS								REMARKS		
				API (W-1)	Sp. Cond (PPT/CM)	TEMP (°F)	Pumping RATE (GPM)	TIME	HEAD (PSIG)	DEEP (FEET)				
15:15		—	49.20											
15:25		0.25	49.48											
15:30		0.25	53.53	6.36	0.52	14.62	14.7	3.38	8.8					plump @ 68'
15:35		0.25	62.36	6.26	0.52	14.62	14.7	3.28	8.5					
15:40		0.25	69.20	6.29	0.52	14.62	5	4.06	8.2					
15:55	~30													
16:00		0.25												
16:05		0.25												
16:20	~20													plump pump to 30' to purge clay
16:55														plump pump to 30' to purge clay

TOTAL WELBID PRODUCTION (GPM)

DEVELOPMENT AND TEST: surging and reclaimer pump

NOTES: _____

WELL DEVELOPMENT FIELD RECORD

11-3

PROJECT NAME: Plant McDonough

WELL ID: B-101B

DEVELOPER: Yang Cheng Co.

DATE OF INSTALL: _____

STARTED DATE: 11/11/2006

COMPLETED DATE: _____

WELL DEPTH BEFORE DEVEL: 1226

WELL DEPTH AFTER DEVEL: _____

STANDING WATER COLUMN (FT): _____

STANDING WELL VOLUME: _____

DISCHARGE VOLUME: 70

DISCHARGE WATER LOSS: _____

DATE/TIME	VOLUME REMOVED (GAL)	FLOWING RATE (GPM)	DEPTH (FEET)	FIELD PARAMETERS								REMARKS
				API (PSI)	SP. GRAV. (SG)	TEMP. (°F)	TEMP. (°C)	CHLOR. (PPM)	SDSS (PPM)	CHLOR. (PPM)	CHLOR. (PPM)	
12:00	0	0	1226	REBEGIN DEVELOPMENT								@ 2' above well bottom
12:05			1217	6.51	0.26	15.43	57.2			7.68	192.4	
12:10			1208	6.37	0.26	16.81	68.3			4.13	191.6	
12:15			1199	6.56	0.26	18.50	75.2			9.49	162.3	
12:20			1190	6.26	0.26	15.92	63.5			8.04	164.30	
12:25			1181	6.57	0.26	15.82	48.9			9.30	166.0	
12:30			1172	6.41	0.27	15.76	62.3			7.30	158.7	
12:35			1163	6.33	0.28	17.01	74.4			4.07	155.7	trans. = 41.8
12:40			1154	6.33	0.28	16.4	49.9			3.85	151.7	
12:45			1145	6.34	0.27	17.38	49.6			3.72	153.3	@ 5' from bottom
12:50			1136	6.40	0.27	16.36	67.8			5.70	151.6	
12:55	25L		1127	6.19	0.25	17.36	75.6			3.07	152.2	
13:00	25L	250	1118	6.14	0.25	17.99	71.0			3.75	150.1	
13:05		250	1109	6.19	0.25	16.96	49.0			4.24	156.4	trans. = 41.8
13:10		250	1100	6.23	0.24	17.40	49.0			4.00	153.6	trans. = 41.8
13:15			1091	6.25	0.24	15.27	78.6			1.66	148.1	
13:20			1082	6.18	0.23	14.71	63.5			3.77	149.7	
13:25			1073	6.31	0.26	13.93	63.4			5.66	117.7	
13:30	47L		1064	6.17	0.27	13.58	72.9			4.54	108.6	
13:35			1055	6.12	0.25	14.20	62.2			7.19	98.9	
13:40			1046	6.13	0.26	13.88	36.3			1.11	104.0	
13:45			1037	6.16	0.26	12.81	19.1			3.97	107.6	
13:50			1028	6.06	0.28	16.11	8.68			3.93	113.4	@ 8' from bottom
13:55			1019	6.19	0.26	12.71	28.2			3.67	119.4	
14:00			1010	6.05	0.26	14.80	49.8			3.11	122.9	
14:05	50L	1000	1001	6.14	0.26	12.93	61.1			4.07	127.7	@ 5' from bottom

DEVELOPMENT METHOD: surging and reclaimer pump

NOTES: _____

WELL DEVELOPMENT FIELD RECORD

S-15
no 1a

PROJECT NAME: Plant McDonough
 WELL NO.: 2
 DEVELOPER: Young & Clark, Inc.
 STARTED LEVEL: 1916/17
 W.P. BEFORE LEVEL: 20-12 11/16 9-16
 WELL DEPTH BEFORE LEVEL: _____
 STANDING WATER COLUMN (FT): _____
 SCREEN LENGTH: 10

WELL NO.: B-101 D
 DATE OF ENTRY: _____
 COMPLETED LEVEL: 1976 - 1978
 W.P. AFTER LEVEL: 39-13 40-11 40-11 12/15/76 10-10
 WELL DEPTH AFTER LEVEL: 48.8
 STANDING WELL VOLUME: _____
 OVERLAND WATER LOSS: _____

DATE/TIME	WELL DEPTH (ft)	FLOWING RATE (gpm)	SPM (PPM)	FIELD PARAMETERS						REMARKS
				PH	AP (mg/l)	TEMP (°F)	Turbidity (NTU)	COND (µmhos/cm)	ORP (mV)	
12/16 7:30	~	200	4-12	REBECCA DEVELOPMENT						
9:30		400	32-50	6.78	0.65	11.46	1.22	10.74	168.4	sample 5' from bottom
9:45		~400	30-35	6.63	0.61	9.63	1.58	9.78	140.4	
9:50			31.98	6.46	0.67	10.06	2.06	9.66	187.4	
10:07			35.44	6.40	0.59	9.38	1.68	10.44	130.7	
10:15	11.1		34.72	6.06	0.59	14.02	2.11	7.43	107.50	start purging (sample for flow)
10:20			35.06	6.04	0.57	14.09	1.91	7.74	108.50	
10:27			35.30	6.04	0.55	14.19	1.43	7.50	107.50	
10:40	11.6		35.38	6.03	0.55	9.11	2.19	7.38	96.40	
10:55	12.6	200	36.56	6.02	0.58	14.00	1.32	7.20	98.20	

51

TOTAL VOLUME PURGED (GAL)

DEVELOPMENT METHOD: surging and reclaimer pump
 NOTES: _____

Product Name: Low-Flow System

Date: 2020-12-16 10:47:29

Project Information:

Operator Name Yong Cheng SoCo
Company Name Golder Associates Inc
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Reclaimer
Tubing Type polyethylene
Tubing Diameter .5 in
Tubing Length 72 ft

Pump placement from TOC 72 ft

Well Information:

Well ID B-101D
Well diameter 2 in
Well Total Depth 77.8 ft
Screen Length 10 ft
Depth to Water 34.56 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 2.869987 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 110.8 in
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	10:25:58	300.11	14.02	6.06	558.69	2.11	34.92	1.43	109.94
Last 5	10:30:58	600.02	14.29	6.04	559.33	1.41	35.06	1.34	103.54
Last 5	10:35:58	900.02	14.19	6.04	556.50	1.43	35.20	1.30	99.33
Last 5	10:41:02	1204.02	14.11	6.03	555.47	2.19	35.28	1.25	96.40
Last 5	10:46:02	1504.02	14.06	6.02	558.00	--	--	1.20	93.51
Variance 0			-0.10	-0.00	-2.83			-0.05	-4.21
Variance 1			-0.08	-0.01	-1.03			-0.05	-2.93
Variance 2			-0.05	-0.01	2.54			-0.05	-2.89

Notes

Grab Samples

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER 118/1028 / McDevoy St WELL ID: B-1028 ^{well}

WELL OR BY: 3 DATE OF INSTALL: 12-20-11/11/18

DEVELOPED BY: K. Fisher COMPLETED LEVEL: 12.2

DRAINED LEVEL: 12.7 to 9.0

WELL DEPTH BEING LEVEL: 72.36 0.0 8.7 W. AFTER DEVEL: 12.2 12.8 12.0

WELL DEPTH AFTER DEVEL: 87.45 WELL DEPTH AFTER DEVEL: 87.40

STANDARD WATER TEMPERATURE: 53.84 STANDARD WELL TEMPERATURE: _____

GENERAL COMMENTS: 22-82 BILLS AND WATER LOGS: _____

DATE/TIME	WELL DEPTH (FEET)	FLUORIDE (PPM)	TOTAL HARDNESS (PPM)	FIELD PARAMETERS								REMARKS
				PH	TEMP. (°C)	TEMP. (°F)	SALINITY (PSU)	COND. (µS/cm)	DO (mg/L)	ORP (mV)	ORP (mV)	
12-4-11	2.5	0.5	13.12	6.05	0.61	12.78	14.00	11.2	15.7	-63.8	11.2	Rec'd 35'
9:01	7.5	..	10.70	5.65	0.61	11.89	13.4	10.4	2.0	-74	..	"
1:05	17.5	"	12.15	5.24	0.59	12.78	13.0	11.4	1.87	-105	..	"
1:05												Rec'd 31'
1:45	32.5	0.5	12.60	5.38	0.61	12.78	13.6	11.4	2.67	118.4	..	"
1:55	37.5	0.2	11.74	5.61	0.60	12.11	13.9	11.4	1.71	101	..	Rec'd 78'
1:05	42.5	0.1	11.77	5.58	0.61	12.97	13.0	11.4	1.67	117	..	
1:07	42.5	=	selling	..	..	..	..	..	..	..	..	Rec'd 82'
1:19			11.52									
1:27			BEGIN Low-Flow, R Spent/Min									
			REFER TO sketch 196 for Parameters									
1:38			COMPLETE DEVELOPMENT									

47.5
47.56
0

DEVELOPMENT METHOD: Reclam surging and reclaimer pump

NOTES: _____

Product Name: Low-Flow System

Date: 2020-12-08 11:39:07

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Reclaimer
Tubing Type polyethylene
Tubing Diameter 0.50 in
Tubing Length 82 ft

Pump placement from TOC 82 ft

Well Information:

Well ID B-102D
Well diameter 2 in
Well Total Depth 87.45 ft
Screen Length 10 ft
Depth to Water 40.24 ft

Pumping Information:

Final Pumping Rate 500 mL/min
Total System Volume 3.256096 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:27:32	300.10	15.72	5.48	627.75	1.75	39.11	0.20	-102.06
Last 5	11:32:32	600.02	15.64	5.47	628.60	1.39	38.95	0.22	-25.16
Last 5	11:37:32	900.02	15.91	5.48	628.92	1.46	38.86	0.22	-7.38
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.08	-0.01	0.84			0.02	76.89
Variance 2			0.27	0.01	0.33			-0.00	17.78

Notes

Development low flow began after 32.5gal purged
Completed development at 1138

Grab Samples



WELL DEVELOPMENT FIELD RECORD

JOB NAME <u>McDonough</u> DEVELOPED BY <u>S. Buxton</u> STARTED DEVEL. <u>10/30/20 10:30</u> <small>DATE TIME</small> W.L. BEFORE DEVEL. <u>28.15 10/30/ 9:52</u> <small>DEPTH DATE TIME</small> WELL DEPTH BEFORE DEVEL. <u>74.6</u> STANDING WATER COLUMN (FT.) _____ SCREEN LENGTH <u>10</u>	JOB NO. _____ WELL NO. <u>B-1030</u> DATE OF INSTALL. _____ SHEET <u>1</u> OF <u>3</u> COMPLETED DEVEL. _____ <small>DATE TIME</small> AFTER DEVEL. _____ <small>DEPTH DATE TIME</small> AFTER DEVEL. _____ WELL DIA. (in) <u>2</u> STANDING WELL VOLUME _____ gal. DRILLING WATER LOSS _____ gal.
---	--

DATE/TIME	VOLUME REMOVED (GALLS)	FIELD PARAMETERS				REMARKS	
		SPEC. COND. (mS/cm)	TEMP. (°C)	pH (s.u.)	Turbidity (NTU)	Pump rate	DTW
10/30 10:30	0	883.5	17.99	8.42	13.2	0.25 gal/min	46.1
10/30 10:40	2.5	855.1	17.20	8.88	10.13	600 ml/min	31.7
10/30 10:45	3.25	834.1	16.82	8.71	8.65	600 ml/min	26.3
10/30 11:00	5.5	822.4	17.61	8.84	8.7	600 ml/min	63.5
10/30 11:15	7.75	903.1	18.06	8.70	6.5	400 ml/min	66.7
10/30 11:30	9.25	1019.1	16.78	8.53	30.8	400 ml/min	67.8
10/30 11:45	10.75	1286.2	16.70	8.14	18.7	600 ml/min	68.5
		paused to test recharge					
		= TOTAL VOLUME REMOVED (gal)					

DEVELOPMENT METHOD surging and reclaimer pump
10:15 - pump surged, 3' from bottom

NOTES: Work stopped development to allow recharge



WELL DEVELOPMENT FIELD RECORD

JOB NAME NE3 DEVELOPMENT
 DEVELOPED BY J. WAGNER
 STARTED DEVEL _____
 DATE _____ TIME _____
 W.L. BEFORE DEVEL 45.60; 11.09.00; 16.38
 DEPTH _____ DATE _____ TIME _____
 WELL DEPTH BEFORE DEVEL 74.6
 STANDING WATER COLUMN (FT.) 29
 SCREEN LENGTH 10' : 64.6 - 74.6

JOB NO. 116849617 WELL NO. B-1030
 DATE OF INSTALL _____ SHEET 2 OF 7
 COMPLETED DEVEL _____
 DATE _____ TIME _____
 AFTER DEVEL _____
 DEPTH _____ DATE _____ TIME _____
 AFTER DEVEL _____ WELL DIA. (in) _____
 STANDING WELL VOLUME 4.72 gal
 DRILLING WATER LOSS _____ gal

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS						REMARKS DTW	PUMP DEPTH FROM CURTAIN / NOTES	
		SPIC. COND. (mS/cm)	TEMP. (°C)	pH (5.0)	Turbidity (NTU)	DO	sAP			
11/04/06 16:45	0	22986.2	DEVELOPMENT						45.60	3' surging
16:51	5	1649.1	15.73	7.27	47.8	6.9	162.4	71	Reclaiming	
11/04/06 17:05	5	ASSUME 700						69.28	1' surge screen	
17:10	7.5	1963.7	12.12	7.67	1000	7.2	161.2	70.3	Reclaiming	
11/09/06 13:40	7.5	ASSUME DEV			14.05			55.18	6'	
14:05	7.5							55.18	Surge water screen	
14:10	12.0	2123.5	20.56	8.02	84.0	8.03	158.2	69.0	Reclaiming	
16:30	15	2171.5	22.83	8.12	1000	8.5	148.8	66.6	1-AGE	
11/09/06 16:05	15	ASSUME DEV						66.9	Surge screen	
16:13	17.5	1905.1	19.85	7.96	914	8.29	148.3	71	Reclaiming	
11/11/06 08:54	17.5							68.30		
13:35	17.5	1808.1	24.78	8.02	270	8.26	139.0	67.0	Surge screen	
13:37	19.0	1800.1	24.70	8.07	500	8.19	130.0	71.80	Well water depth change	
11/17/06 10:07					1460			48.50	Surge/whale screen	
10:50		1936.3	17.83	6.97	676	10.31	151.40	48.50		
11:00	240	2017.2	12.61	7.92	75	10.1	150.1	50.0	Surge	
11:05	250	Well Water depth will be 103			Well Water depth & screen					

= TOTAL VOLUME REMOVED (gal)

DEVELOPMENT METHOD surging and reclaimer pump

NOTES:

WELL DEVELOPMENT FIELD RECORD

no 307

PROJECT NAME / NUMBER: 160844618
 WELL ID: B-103D
 WELL DIA (in): 2
 DEVELOPER: Surf King Co
 STARTED DATE: 12/7 - 1/4
 WELL DEPTH (ft): 19.6 / 1054
 WELL DEPTH BEFORE DEVEL: 74.19
 STANDING WATER COLUMN (ft): 88.59
 SCREEN LENGTH: 10

WELL ID: B-103D
 DATE OF INSTALL: _____
 COMPLETED DATE: _____
 VS. AFTER DEVEL: _____
 WELL DEPTH AFTER DEVEL: _____
 STANDING WELL WATER: _____
 OVERLINE WATER LINE: _____

DATE/TIME	WELL LOG REMOVED (ft)	PUMPING RATE (gpm)	STRT DEPTH (ft)	FIELD PARAMETERS								REMARKS
				WT (psi)	SG (lbm/gal)	TEMP (F)	PH (pH)	SS (ppm)	SPH (ppm)	SDI	ORP (mV)	
12/7/10 10pm 1:30pm	10	1.5	65.2	1.55	123.8	10.5				208	128	pump @ 11'
12/8 1:00			69.35									some whole screen (2')
12/10 12:11			69									BEGIN PUMPING END PUMPING = DRY
12/9 8:56			62.32									
12/9 1:49			60.98									
12-10/10am			54.98									
12-11/10am			57.21									
12-15/10:30			74.11									
12-16/10:30			32.10									
12/16 11:45 12:15			31.52									
			66.95	6.63	1.79	12.97	934	NO	2.28	128.3		
	36	TOTAL WELL LOG REMOVED (ft)										

DEVELOPMENT METHOD: surging and reclaimer pump
 NOTES: Pump to dry: (12/7)
(12/10)



WELL DEVELOPMENT FIELD RECORD

<p>JOB NAME <u>McDonough</u></p> <p>DEVELOPED BY <u>S. Ondrej</u></p> <p>STARTED DEVEL <u>10/29/20 14:06</u></p> <p style="margin-left: 20px;">DATE TIME</p> <p>W.L. BEFORE DEVEL. <u>6.25 10/29/14:11</u></p> <p style="margin-left: 20px;">DEPTH DATE TIME</p> <p>WELL DEPTH: BEFORE DEVEL. <u>63.45</u></p> <p>STANDING WATER COLUMN (FT.) <u>57.2</u></p> <p>SCREEN LENGTH <u>10 feet</u></p>	<p>JOB NO. _____ WELL NO. <u>B-104D</u></p> <p>DATE OF INSTALL. <u>10/29/20</u> SHEET <u>1</u> OF <u>1</u></p> <p>COMPLETED DEVEL. <u>10/29/20 18:36</u></p> <p style="margin-left: 20px;">DATE TIME</p> <p>AFTER DEVEL. <u>63.45 10/29/18:36</u></p> <p style="margin-left: 20px;">DEPTH DATE TIME</p> <p>AFTER DEVEL. _____ WELL DIA. (In) <u>2</u></p> <p>STANDING WELL VOLUME _____ gal.</p> <p>DRILLING WATER LOSS _____ gal.</p>
---	--

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS				Pump REMARKS	
		SPEC. COND. (µS/cm)	TEMP. (°C)	pH (AU)	Turbidity (NTU)	Rate	DTW
1445	0	819.8	22.81	6.22	30.0	1/2 gal/min	28.9
1500	75	paused to recharge measurement					
1505	75	pump priming @ 900 ft recharge / 2 min					
1515	125	570.1	20.74	6.35	19.0	0.5 gal/min	41.8 feet
1520	125	FLOW reduced to 0.5 gal/min					
1530	180	1009.3	20.27	6.18	3.76	600 ml/min	54.21
1545	180	1000.9	21.09	6.10	72.5	600 ml/min	50.3
1600	19.75	1047.0	21.24	6.11	15.9	600 ml/min	47.35
1615	22	1050.4	20.91	6.11	3.40	600 ml/min	45.76
1630	24.25	1048.3	20.57	6.11	4.61	600 ml/min	46.0
1645	26.5	1030.6	20.42	6.11	2.12	600 ml/min	46.1
1700	28.75	1045.6	20.36	6.11	10.7	600 ml/min	47.2
1715	31	1051.0	20.30	6.13	3.62	600 ml/min	47.7
1730	33	1037.8	20.26	6.17	20.4	600 ml/min	47.2
1735	36	1054.5	20.01	6.11	4.10	600 ml/min	47.2
36		• TOTAL VOLUME REMOVED (gals)					

DEVELOPMENT METHOD: pump surged @ 1530, moved 3 feet up in screen

pump surged @ 1615, moved 2 feet up in screen

pump surged @ 1645, moved to 1 foot up in screen

surged @ 1715, moved to 1 foot above bottom

NOTES:

PURGING AND SAMPLING FORM

October

Project #: 166849618	Project Name/Site Name: Plant McDonough Advanced Sampling Facility		Page: <u>1</u> of <u>1</u>
Well ID #: <u>B-104D</u>	Date: <u>10/29/20</u>	Water Level (ft): <u>37.89</u>	Time (WL): <u>1759</u>
Physical Condition of Well: <u>good</u>		Weather: <u>25.56</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>63.45</u>	Water Column (ft): <u>34.80</u>	Well Volume (gal): <u>4.2</u>
Start Purge: <u>1754</u>	End Purge: <u>1836</u>	Top of Pump (ft): <u>68.45</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>9.6 L</u>	
Evacuation Equipment: <u>Reclaimer</u>		Purging Personnel: <u>S. Brodrick</u>	
SmarTroll serial #: <u>512733</u>		Lamotte serial #: <u>1386 - 3811</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
1836	clear		6.06	1059.5	1.33	19.81	272.2	0.19	26.6	240 ml

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: _____ Sample Date/Time: _____ Metals Date/Time: _____
 Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: _____
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: _____

# Sample Bottles	Container	Preservative	Analyte(s)
1	250 mL plastic	HNO ₃	B, Be, Co, Al, Mg, Mn, K, Na, Si, Ca
1	250 mL plastic	--	Alkalinity
1	250 mL plastic	--	Chloride + Sulfate
1	250 mL plastic	--	Ferrous + Ferric Iron

Signature: [Signature]

Product Name: Low-Flow System

Date: 2020-10-29 18:38:20

Project Information:

Operator Name S. Brodie
Company Name Golder
Project Name B-104D
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type reclaimer
Tubing Type LPDE
Tubing Diameter .5 in
Tubing Length 63.45 ft

Pump placement from TOC 68.45 ft

Well Information:

Well ID B-104D
Well diameter 2 in
Well Total Depth 63.45 ft
Screen Length 10 ft
Depth to Water 36.89 ft

Pumping Information:

Final Pumping Rate 240 mL/min
Total System Volume 2.539863 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 10.08 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	18:14:26	1200.02	20.61	6.06	1059.22	0.33	28.65	1.08	431.96
Last 5	18:19:26	1500.02	20.42	6.06	1058.94	0.39	28.90	1.83	381.05
Last 5	18:24:27	1801.02	20.30	6.06	1058.49	0.32	27.30	0.72	342.24
Last 5	18:29:28	2102.02	19.93	6.06	1058.80	0.25	26.90	1.14	304.71
Last 5	18:34:28	2402.02	19.81	6.06	1059.46	0.19	26.60	1.33	272.23
Variance 0			-0.12	0.00	-0.45			-1.11	-38.81
Variance 1			-0.37	0.00	0.31			0.41	-37.53
Variance 2			-0.12	-0.00	0.66			0.19	-32.48

Notes

Grab Samples



WELL DEVELOPMENT FIELD RECORD

JOB NAME: <u>McDonough</u>	JOB NO: _____	WELL NO: <u>B-105D</u>
DEVELOPED BY: <u>S. Brodie</u>	DATE OF INSTALL: _____	SHEET _____ OF _____
STARTED DEVEL: <u>10/30/20 / 1510</u>	COMPLETED DEVEL: _____	DATE _____ TIME _____
W.L. BEFORE DEVEL: <u>16.2 10/30/1350</u>	AFTER DEVEL: _____	DEPTH _____ DATE _____ TIME _____
WELL DEPTH BEFORE DEVEL: <u>74.35</u>	AFTER DEVEL: _____	WELL DIA. (in) _____
STANDING WATER COLUMN (FT): <u>58.15 9.5gal</u>	STANDING WELL VOLUME: <u>9</u>	gal
SCREEN LENGTH: <u>10</u>	DRILLING WATER LOSS: _____	gal

1525

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS				FLOW RATE	REMARKS	PUMP FEET FROM BOTTOM
		SPEC. COND. (mS/cm)	TEMP. (°C)	pH (s.u.)	Turbidity (NTU)			
10/30 1510	0	576.0	19.91	7.01	52.8	0.25 gal/min	24.49	1'
10/30 1525		592.0	19.55	6.70	51.6	0.25 gal/min	28.7	1'
10/30 1530		604.2	19.47	6.51	41.9	0.25 gal/min	33.45	1'
10/30 1545		602.5	19.33	6.36	51.6	0.25 gal/min	37.9	3'
10/30 1600		606.9	19.51	6.26	46.5	0.25 gal/min	39.2	3'
10/30 1615		611.9	19.28	6.18	47.1	0.25 gal/min	40.29	3'
10/30 1630		613.0	19.91	6.13	42.1	0.25 gal/min	40.79	3'
10/30 1645		601.5	19.03	6.24	81	0.25 gal/min	42.1	6'
10/30 1700		615.9	19.97	6.07	33.6	0.25 gal/min	44.42.1	6'
10/30 1715	31.25	617.9	19.04	6.05	17.9	0.25 gal/min	40.2	6'
general after rain out of field								
10/30 1730	31.25	650.1	18.61	6.04	18.5	0.5 gal/min	42.5	6'
10/30 1745	38.75	578.9	18.83	6.55		0.5 gal/min	6.2	
10/30 1800	46.25	642.3	18.39	6.22	22.1	0.25 gal/min	60.9	9'
10/30 1815		635.8	19.47	6.10	26.8	0.25 gal/min	63.9	9'
10/30 1830		628.2	19.15	6.18	19.5	0.25 gal/min	69.0	9'
10/30 1850	53.75	635.7	18.10	6.12	9.84	0.25 gal/min	64.1	9'
		= TOTAL VOLUME REMOVED (gal)						

DEVELOPMENT METHOD: surging and reclaimer pump

1530 - pump surged, moved to 3' from bottom

1630 - pump surged, moved to 6' from bottom

1730 - pump surged, moved to 9' from bottom

NOTES: Development complete, no time for low flow due to late hour of day and loss of light

WELL DEVELOPMENT FIELD RECORD

JOB NAME <u>NEL DEVELOPMENT</u> DEVELOPED BY <u>J. Wapruspaan</u> STARTED DEVEL. <u>11.02.20 / 16:35</u> DATE TIME W.L. BEFORE DEVEL. <u>16.40 / 11.02.20 / 16:31</u> DEPTH DATE TIME WELL DEPTH BEFORE DEVEL. <u>72.90</u> STANDING WATER COLUMN (FT.) <u>56.5</u> SCREEN LENGTH <u>10' : 62.90 - 72.90</u>	JOB NO. <u>166849/18</u> WELL NO. <u>B-1050</u> DATE OF INSTALL. _____ SHEET <u>1</u> OF <u>2</u> COMPLETED DEVEL. <u>11.04.20 / 15:20</u> DATE TIME AFTER DEVEL. <u>40.4 / 11.09 / 15:20</u> DEPTH DATE TIME AFTER DEVEL. <u>72.90</u> WELL DIA. (IN) <u>2</u> STANDING WELL VOLUME <u>9.21</u> gal DRILLING WATER LOSS _____ gal
--	--

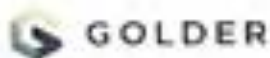
DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS						Do	ORP	REMARKS DTW	Pump from BOTTOM
		SPEC. COND. (µS/cm)	TEMP. (°C)	pH (SU)	Turbidity (NTU)						
<u>11.02.20 / 16:40</u>	<u>0</u>	<u>641.0</u>	<u>19.11</u>	<u>6.33</u>	<u>21000</u>	<u>0.77</u>	<u>37.2</u>	<u>27.8</u>	<u>3"</u>	<u>in-line</u>	
<u>16:52</u>	<u>5</u>	<u>639.2</u>	<u>18.86</u>	<u>6.78</u>	<u>11000</u>	<u>9.37</u>	<u>23.2</u>	<u>61.0</u>			
<u>17:00</u>	<u>10</u>	<u>260.5</u>	<u>18.50</u>	<u>7.32</u>	<u>88.7</u>	<u>8.75</u>	<u>67.5</u>	<u>68.5</u>		<u>ACCELERATING</u>	
<u>17:10</u>	<u>-</u>							<u>59.5</u>		<u>ACCELERATING</u>	
<u>17:19</u>	<u>-</u>							<u>49.5</u>		<u>ACCELERATING</u>	
<u>11.04.20 / 09:05</u>	<u>-</u>	<u>RESUME DEVELOPMENT</u>								<u>16.42</u>	<u>3" SAGE WITH</u>
<u>09:15</u>	<u>15</u>	<u>668.6</u>	<u>17.72</u>	<u>6.53</u>	<u>21000</u>	<u>3.74</u>	<u>26.1</u>	<u>45.88</u>		<u>0.5 gpm</u>	
<u>09:25</u>	<u>20</u>	<u>662.6</u>	<u>17.99</u>	<u>6.19</u>	<u>42.0</u>	<u>2.79</u>	<u>23.5</u>	<u>59.10</u>		<u>0.5 gpm</u>	
<u>09:30</u>	<u>22.5</u>	<u>661.9</u>	<u>18.32</u>	<u>6.19</u>	<u>30.2</u>	<u>4.53</u>	<u>113.5</u>	<u>66.5</u>		<u>ACCELERATING</u>	
<u>09:50</u>	<u>22.5</u>	<u>661.0</u>	<u>19.20</u>	<u>6.34</u>	<u>92.9</u>	<u>6.21</u>	<u>235.9</u>	<u>76.5</u>		<u>SAGE SCREEN</u>	
<u>10:00</u>	<u>27.5</u>	<u>658.9</u>	<u>18.48</u>	<u>6.44</u>	<u>41.4</u>	<u>7.89</u>	<u>316.5</u>	<u>62.7</u>		<u>3"</u>	
<u>10:05</u>	<u>30</u>	<u>661.1</u>	<u>18.52</u>	<u>6.45</u>	<u>84.2</u>	<u>7.91</u>	<u>267.3</u>	<u>67.0</u>		<u>ACCELERATING</u>	
<u>10:30</u>	<u>30</u>	<u>658.8</u>	<u>18.83</u>	<u>6.56</u>	<u>47.6</u>	<u>7.93</u>	<u>262.2</u>	<u>45.0</u>		<u>SAGE SCREEN</u>	
<u>10:40</u>	<u>34</u>	<u>661.3</u>	<u>18.80</u>	<u>6.37</u>	<u>25.5</u>	<u>5.18</u>	<u>279.3</u>	<u>62.7</u>			
<u>10:45</u>	<u>36</u>	<u>658.7</u>	<u>18.88</u>	<u>6.26</u>	<u>27.5</u>	<u>4.04</u>	<u>34.4</u>	<u>61.4</u>		<u>ACCELERATING</u>	
<u>11:10</u>	<u>36</u>	<u>656.1</u>	<u>19.48</u>	<u>6.27</u>	<u>84.2</u>	<u>7.0</u>	<u>404.7</u>	<u>43.40</u>		<u>COARSE SCREEN</u>	
<u>11:20</u>	<u>38.5</u>	<u>656.4</u>	<u>19.32</u>	<u>6.21</u>	<u>87.5</u>	<u>3.12</u>	<u>438.5</u>	<u>52.95</u>			
<u>11:30</u>	<u>41</u>	<u>652.9</u>	<u>19.33</u>	<u>6.15</u>	<u>22.3</u>	<u>2.54</u>	<u>462.9</u>	<u>57.65</u>			
		= TOTAL VOLUME REMOVED (gal)									

DEVELOPMENT METHOD: RECLAIMED + SURGING

10:30: FLOW RATE DECREASED FROM 0.5 gpm - 0.4 gpm

11:10: FLOW RATE FROM 0.4 - 0.25 gpm

NOTES:



WELL DEVELOPMENT FIELD RECORD

JOB NAME NES DEVELOPMENT
 DEVELOPED BY J. WAGERSPACK
 STARTED LEVEL 11.02.20 / 16:35
DATE TIME
 W.L. BEFORE DEVEL. 16.40 / 11/02 / 16:31
DEPTH DATE TIME
 WELL DEPTH BEFORE DEVEL. 72.90
 STANDING WATER COLUMN (FT.) 56.5
 SCREEN LENGTH 10

JOB NO. 166849618 WELL NO. B-1050
 DATE OF INSTALL. _____ SHEET 2 OF 2
 COMPLETED LEVEL 11.04.20 / 16:20
DATE TIME
 AFTER DEVEL. 40.4 / 11.04 / 16:20
DEPTH DATE TIME
 AFTER DEVEL. 72.90 WELL DIA (IN) 2
 STANDING WELL VOLUME _____ gal
 DRILLING WATER LOSS _____ gal

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS						DO	ORP	REMARKS DTW	Pump From Bottom / NOTES
		SPEC. COND. (mS/cm)	TEMP. (°C)	pH (a.u.)	Turbidity (NTU)						
11.04.20 / 11:40	43.5	650.4	19.91	6.12	5.79	215	490.4	62.20	5'		
11:50	46	648.7	19.50	6.11	6.01	1.96	527.5	64.3	RECLAIMING		
12:10	46	649.9	20.09	6.19	50.2	209	582.2	43.2	SUBSIDING		
12:20	48.5	647.7	20.09	6.13	51	200	607.8	50.49			
12:30	51	646.9	19.77	6.11	28.5	1.67	633.3	57.8	SUBSIDING		
12:40	53.5	650.9	19.72	6.10	19.3	1.59	652.7	62.95	SUBSIDING		
12:50	56	644.2	19.73	6.12	10.61	1.41	681.2	64.4	-> 5' RECLAIMING		
13:15	56	654.4	20.99	6.19	7.14	205	492.1	43.9	WATER SAMPLE		
13:25	58.5	650.2	19.93	6.09	11.7	1.71	611.2	56.0	SUBSIDING		
13:35	61	650.0	19.88	6.08	9.29	1.56	702.3	63.8			
13:45	63.5	649.4	19.81	6.09	4.03	1.80	871.9	63.9	-> 3' RECLAIMING		
14:05	63.5	649.0	20.5	6.11	5.21	1.99	1061.8	44.20			
14:15	66	649.2	20.02	6.09	2.11	1.75	1111.8	53.8	-> 5'		
14:25	68.5	648.9	19.72	6.08	0.89	1.59	1135.5	62.25	RECLAIMING		
14:50	68.5	BEGIN LOW FLOW DEVELOPMENT							40.0		
15:05		FLOW RATE FROM 400 gpm -> 200 gpm									
15:20	+2.4	647.20	20.37	6.10	0.28	1.54	1124.20	40.4			
	70.5	DEVELOPMENT COMPLETE									
	124.25	= TOTAL VOLUME REMOVED (gal)									

DEVELOPMENT METHOD: RECLAIMER + SUBSIDING

NOTES:

Product Name: Low-Flow System

Date: 2020-11-04 15:27:00

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Reclaimer
Tubing Type LDPE
Tubing Diameter .250 in
Tubing Length 68 ft

Pump placement from TOC 68 ft

Well Information:

Well ID B-105D
Well diameter 2 in
Well Total Depth 72.90 ft
Screen Length 10 ft
Depth to Water 40 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 2.186386 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.8 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:01:21	600.02	20.22	6.09	647.87	0.52	43.65	1.64	1175.88
Last 5	15:06:21	900.02	20.21	6.08	647.04	0.43	45.40	1.49	1180.15
Last 5	15:11:21	1200.02	20.18	6.10	647.69	0.40	43.60	1.52	1181.51
Last 5	15:16:21	1500.02	20.26	6.09	647.84	0.37	41.80	1.56	1183.04
Last 5	15:21:21	1800.02	20.37	6.10	647.21	0.28	40.40	1.54	1184.21
Variance 0			-0.02	0.01	0.64			0.03	1.36
Variance 1			0.08	-0.00	0.16			0.04	1.53
Variance 2			0.11	0.00	-0.64			-0.01	1.17

Notes

@15:05 purge rate decreased from 400 to 200 mL/min

Grab Samples

Product Name: Low-Flow System

Date: 2020-12-08 12:58:13

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name NES Development
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Reclaimer
Tubing Type polyethylene
Tubing Diameter .5 in
Tubing Length 77 ft

Pump placement from TOC 77 ft

Well Information:

Well ID B-106D
Well diameter 2 in
Well Total Depth 82.22 ft
Screen Length 10 ft
Depth to Water 37.0 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 3.063041 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.28 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:40:19	300.05	17.67	6.05	511.79	1.35	37.60	0.93	87.75
Last 5	12:45:19	600.02	16.87	5.99	502.22	8.78	37.35	0.22	85.86
Last 5	12:50:19	900.02	16.65	5.94	508.84	6.04	37.20	0.14	85.57
Last 5	12:55:19	1200.02	16.92	5.93	512.15	4.94	37.19	0.13	84.61
Last 5									
Variance 0			-0.81	-0.06	-9.57			-0.71	-1.89
Variance 1			-0.22	-0.04	6.62			-0.08	-0.29
Variance 2			0.27	-0.01	3.31			-0.01	-0.96

Notes

Grab Samples

WELL DEVELOPMENT FIELD RECORD

JOB NAME <u>166877618 NES DEVELOPMENT</u>	JOB NO _____	WELL NO <u>8-1070</u>
DEVELOPED BY <u>JUDE WAGNERPACK</u>	DATE OF INSTALL _____	SHEET <u>1</u> OF <u>2</u>
STARTED DEVEL <u>11.02.20 / 10:05</u>	COMPLETED DEVEL <u>11.02.20 / 15:11</u>	
W.L. BEFORE DEVEL <u>18.35 / 11.02 / 09:30</u>	AFTER DEVEL <u>18.83 / 11.02 / 15:11</u>	
<u>DTWC</u> WELL DEPTH BEFORE DEVEL <u>85.25</u>	AFTER DEVEL <u>85.25</u> WELL DIA (IN) <u>2</u>	
STANDING WATER COLUMN (FT.) <u>66.9</u>	STANDING WELL VOLUME <u>10.9</u> GPM	
SCREEN LENGTH <u>10' 76.25 - 85.25</u>	DRILLING WATER LOSS _____ GPM	

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS					DO	SPR	REMARKS DTWC	Pump from Bottom
		SPEC COND. (mS/cm)	TEMP. (°C)	pH (4-14)	Turbidity (NTU)					
11.02.20/10:15	5	643.8	15.13	6.13	7.000	10.10	-78.4	19.00	3" surge	
10:27	10	714.6	15.93	6.21	2.000	8.00	-76.7	19.75	3" surge	
10:38	15	707.9	16.73	5.95	58.7	8.50	-27.5	19.60	3" surge	
10:40	20	705.5	16.41	6.02	70.2	7.01	5.2	19.80	"	
11:02	25	716.6	16.38	5.97	53.3	7.59	6.9	19.75	-3 4" surge	
11:16	30	421.7	16.02	5.92	47.1	7.53	15.5	19.95	4" surge	
11:28	35	724.0	16.44	6.00	48.7	10.10	42.8	19.95	"	
11:40	40	718.1	16.65	5.97	50.4	9.13	43.5	19.95	"	
11:52	45	722.1	16.33	5.95	34.6	8.29	25.4	19.60	"	
12:04	50	666.6	16.82	5.95	19.9	10.04	32.2	19.95	-> 8" surge	
12:16	55	724.1	16.74	5.94	27.8	8.71	43.8	20.0	surge	
12:28	60	348.4	16.13	5.96	18.8	7.72	61.9	19.95	surge	
12:40	65	711.1	17.05	5.97	6.5	7.71	70.0	19.95	-> 3" surge	
12:52	70	708.1	16.89	6.00	34.6	8.71	105.4	19.90	"	
13:04	75	640.0	16.88	5.96	16.7	8.08	54.1	19.95	3" surge	
13:16	80	716.1	16.77	5.95	17.8	6.59	82.9	19.90	"	
13:28	85	709.1	17.20	5.97	5.7	8.13	86.1	19.50	-> 5" surge	
13:40	90	721.3	17.17	5.95	20.3	9.57	87.8	19.50	"	
11.02.20 15:11	102.6	= TOTAL VOLUME REMOVED (GAL)								


DEVELOPMENT METHOD: ACQUICED + SURGE
 Flow RATE = 1600 ml/min = 0.42 gal/min
NO WELL PAD INSTALLED; DTWC FROM TWC

NOTES:

WELL DEVELOPMENT FIELD RECORD

JOB NAME NES DEVELOPMENT
 DEVELOPED BY J. WAGUESPAK
 STARTED DEVEL. 11.02.20 / 10:05
DATE TIME
 W.L. BEFORE DEVEL. 18.35 / 11.02.09:30
DEPTH DATE TIME
 WELL DEPTH BEFORE DEVEL. 85.25
 STANDING WATER COLUMN (FT.) 66.9
 SCREEN LENGTH 10' : 75.25 - 85.25

JOB NO. 166279617 WELL NO. B-1070
 DATE OF INSTALL. _____ SHEET 2 OF 2
 COMPLETED DEVEL. 11.02.20 / 15:11
DATE TIME
 AFTER DEVEL. 18.33 / 11.02 / 15:11
DEPTH DATE TIME
 AFTER DEVEL. 85.25 WELL DIA. (IN) 2
 STANDING WELL VOLUME 10.9 gal.
 DRILLING WATER LOSS _____ gal.

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS					DO	OAP	REMARKS DTW	PUMP FROM BOTTOM
		SPEC COND. (mS/cm)	TEMP. (°C)	pH (S.U.)	Turbidity (NTU)					
11.02.20 / 13:52	95	724.0	17.27	5.95	9.04	6.88	85.8	19.90	5'	
14:04	100	735.0	17.53	5.97	4.5	7.18	105.2	19.10		
		886m low flow DEV @ 14:44								
15:11	102.6	710.20	18.42	5.86	3.56	0.3	215.20	18.83		
		DEV COMPLETE @ 15:11								
										
	102.6	= TOTAL VOLUME REMOVED (gal)								

DEVELOPMENT METHOD: RECLAIMER + SURGING
Flow RATE 1600 ml/min @ 0.42 gal/min
14:04: STOPPED FLOW TO GET GAS FOR GENERATOR

NOTES

Product Name: Low-Flow System

Date: 2020-11-02 15:13:51

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Reclaimer
Tubing Type LDPE
Tubing Diameter .250 in
Tubing Length 80 ft

Pump placement from TOC 80 ft

Well Information:

Well ID B-107D
Well diameter 2 in
Well Total Depth 85.25 ft
Screen Length 10 ft
Depth to Water 18.60 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 2.302218 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.76 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:49:37	300.15	18.88	5.86	708.59	1.74	18.80	1.15	228.78
Last 5	14:54:37	600.09	18.39	5.86	716.44	6.02	18.83	0.26	233.19
Last 5	14:59:37	900.09	18.43	5.86	714.89	7.21	18.83	0.14	222.19
Last 5	15:04:37	1200.07	18.51	5.86	712.79	4.72	18.83	0.12	217.21
Last 5	15:09:38	1501.07	18.42	5.86	710.17	3.56	18.83	0.13	215.20
Variance 0			0.04	-0.00	-1.56			-0.11	-11.00
Variance 1			0.08	0.00	-2.10			-0.02	-4.98
Variance 2			-0.09	0.01	-2.61			0.00	-2.01

Notes

Grab Samples

WELL DEVELOPMENT FIELD RECORD

JOB NAME NES DEVELOPMENT
 DEVELOPED BY J. WAGNER
 STARTED LEVEL N/05/20 12:00
DATE TIME
 WL BEFORE LEVEL 20.25 N/05 10:45
DEPTH DATE TIME
 WELL DEPTH BEFORE LEVEL 31.91
 STANDING WATER COLUMN (FT) 61.66
 SCREEN LENGTH 10' 71.91 - 31.91

JOB NO 16624968 WELL NO 9-102D
 DATE OF INSTALL _____ SHEET 1 OF 2
 COMPLETED LEVEL 11.05.20 16:58
DATE TIME
 AFTER LEVEL 22.16 18:05 16:58
DEPTH DATE TIME
 AFTER LEVEL 31.91 WELL DIA (IN) 2
 STANDING WELL VOLUME 10.05 gal
 DRILLING WATER LOSS _____ gal

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS					DO	O ₂ P	REMARKS DTH	PUMP TEST OR OTHER NOTES
		SPEC. COND. (mS/cm)	TEMP. (°C)	pH (NU)	Turbidity (NTU)					
<u>N/05/20/12:00</u>	<u>0</u>	<u>286.0</u>	<u>12.50</u>	<u>6.27</u>	<u>7.000</u>	<u>1.16</u>	<u>-96.2</u>	<u>26.7</u>	<u>6" casing</u>	
<u>12:07</u>	<u>5</u>	<u>281.5</u>	<u>13.50</u>	<u>6.25</u>	<u>7.000</u>	<u>1.26</u>	<u>-93.9</u>	<u>27.2</u>	<u>5-66 casing</u>	
<u>12:17</u>	<u>10</u>	<u>288.2</u>	<u>13.33</u>	<u>6.24</u>	<u>7.000</u>	<u>1.51</u>	<u>-90.9</u>	<u>27.0</u>	<u>"</u>	
<u>12:26</u>	<u>15</u>	<u>288.7</u>	<u>13.25</u>	<u>6.24</u>	<u>7.000</u>	<u>1.39</u>	<u>-90.9</u>	<u>27.6</u>	<u>"</u>	
<u>12:36</u>	<u>20</u>	<u>209.9</u>	<u>13.07</u>	<u>6.14</u>	<u>9.2</u>	<u>1.0</u>	<u>-75.2</u>	<u>27.6</u>	<u>"</u>	
<u>12:46</u>	<u>25</u>	<u>201.2</u>	<u>12.97</u>	<u>6.11</u>	<u>93.3</u>	<u>1.02</u>	<u>-72.7</u>	<u>27.6</u>	<u>5-66 casing</u>	
<u>12:56</u>	<u>30</u>	<u>197.4</u>	<u>12.91</u>	<u>6.10</u>	<u>46.1</u>	<u>1.05</u>	<u>-81.0</u>	<u>27.5</u>	<u>"</u>	
<u>13:06</u>	<u>35</u>	<u>193.0</u>	<u>12.82</u>	<u>6.08</u>	<u>20.9</u>	<u>1.05</u>	<u>-83.6</u>	<u>27.5</u>	<u>→ 3' casing screen</u>	
<u>13:26</u>	<u>40</u>	<u>205.0</u>	<u>12.72</u>	<u>6.15</u>	<u>896</u>	<u>1.91</u>	<u>-77.3</u>	<u>27.5</u>	<u>5-66 casing</u>	
<u>13:36</u>	<u>45</u>	<u>194.3</u>	<u>12.96</u>	<u>6.07</u>	<u>117</u>	<u>1.36</u>	<u>-67.1</u>	<u>29.7</u>	<u>"</u>	
<u>13:46</u>	<u>50</u>	<u>189.5</u>	<u>12.88</u>	<u>6.06</u>	<u>18.0</u>	<u>1.32</u>	<u>-52.8</u>	<u>29.8</u>	<u>5-66 casing</u>	
<u>13:56</u>	<u>60</u>	<u>182.1</u>	<u>12.82</u>	<u>6.05</u>	<u>18.7</u>	<u>1.37</u>	<u>-74.9</u>	<u>29.6</u>	<u>→ 6' casing screen</u>	
<u>14:06</u>	<u>65</u>	<u>182.2</u>	<u>12.76</u>	<u>6.05</u>	<u>21.9</u>	<u>1.33</u>	<u>-56.3</u>	<u>30.9</u>	<u>"</u>	
<u>14:16</u>	<u>70</u>	<u>187.6</u>	<u>12.76</u>	<u>6.04</u>	<u>15.3</u>	<u>1.43</u>	<u>-61.6</u>	<u>30.5</u>	<u>5-66 casing</u>	
<u>14:26</u>	<u>75</u>	<u>187.0</u>	<u>12.74</u>	<u>6.04</u>	<u>14.0</u>	<u>1.46</u>	<u>-62.0</u>	<u>31.2</u>	<u>"</u>	
<u>14:36</u>	<u>80</u>	<u>186.4</u>	<u>12.72</u>	<u>6.03</u>	<u>8.93</u>	<u>1.37</u>	<u>-48.7</u>	<u>31.3</u>	<u>→ 9' casing screen</u>	
<u>14:46</u>	<u>85</u>	<u>187.6</u>	<u>12.77</u>	<u>6.00</u>	<u>7.87</u>	<u>1.36</u>	<u>-52.7</u>	<u>32.3</u>	<u>5-66 casing</u>	
		= TOTAL VOLUME REMOVED (gal)								

DEVELOPMENT METHOD: ACCLAIMA + SURGE

NOTES:

WELL DEVELOPMENT FIELD RECORD

JOB NAME: WES DEVELOPMENT
 DEVELOPED BY: J. WAGESACK
 STARTED DEVEL: 11/05/20 12:00
DATE TIME
 W.L. BEFORE DEVEL: 20.25 11/05 10:45
DEPTH DATE TIME
 WELL DEPTH BEFORE DEVEL: 81.91
 STANDING WATER COLUMN (FT.): 61.66
 SCREEN LENGTH: 10' 71.11 - 81.91

JOB NO. 166297618 WELL NO. B-108D
 DATE OF INSTALL: _____ SHEET 2 OF 2
 COMPLETED DEVEL: 11.05.20 16:58
DATE TIME
 AFTER DEVEL: 22.16 11.05 16:58
DEPTH DATE TIME
 AFTER DEVEL: 81.91 WELL DIA. (IN) 2
 STANDING WELL VOLUME: 10.05 gal
 DRILLING WATER LOSS: _____ gal

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS						D _o	CAP	REMARKS DTH	PUMP FROM BOTTOM + NOTES
		SPEC. COND. (mS/cm)	TEMP. (°C)	pH (N.U.)	Turbidity (NTU)						
11/05/20 14:16	90	787.0	18.71	6.09	8.37	1.47	-89.7	22.2		→ 6" sand	
15:26	95	788.8	18.70	6.06	8.0	1.29	-155.3	29.7		→ 6" sand	
15:16	100	785.8	18.66	6.03	9.07	1.22	-110.7	29.4			
15:24	105	784.8	18.63	6.02	4.32	1.22	-66.2	29.1		→ 3" sand	
15:36	110	783.4	18.61	6.03	5.99	1.28	-62.7	30.1		→ 8" sand	
15:46	115	783.2	18.61	6.02	8.25	1.35	-7.5	31.0		→ 5"	
15:56	120	782.3	18.61	6.05	3.99	1.33	-18.1	30.4		→ 5"	
16:23	BEG	low flow	DEV					21.15			
16:58	END	low flow	DEV - COMPLETE					22.6		300 RPM	
	120	= TOTAL VOLUME REMOVED (gal)									

DEVELOPMENT METHOD: Recirculation + surging

2.77 gallons purged during low flow

NOTES:

Product Name: Low-Flow System

Date: 2020-11-05 17:01:11

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Reclaimer
Tubing Type LDPE
Tubing Diameter .250 in
Tubing Length 66 ft

Pump placement from TOC 66 ft

Well Information:

Well ID B-108D
Well diameter 2 in
Well Total Depth 81.91 ft
Screen Length 10 ft
Depth to Water 21.15 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 2.16708 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17.4 in
Total Volume Pumped 10.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:38:28	899.90	18.44	6.07	787.55	9.44	22.55	1.67	68.33
Last 5	16:43:28	1199.90	18.43	6.06	788.94	8.71	22.60	1.43	-3.16
Last 5	16:48:35	1506.90	18.43	6.07	789.63	8.20	22.60	1.32	-16.70
Last 5	16:53:35	1806.89	18.40	6.07	790.32	7.20	22.60	1.16	-20.00
Last 5	16:58:35	2106.90	18.39	6.08	791.28	4.70	22.60	1.06	-11.69
Variance 0			0.00	0.00	0.70			-0.11	-13.54
Variance 1			-0.03	0.00	0.69			-0.16	-3.30
Variance 2			-0.01	0.01	0.96			-0.09	8.31

Notes

Grab Samples



WELL DEVELOPMENT FIELD RECORD

<p>JOB NAME: <u>Plant McDonough</u></p> <p>DEVELOPED BY: <u>D. Thomas</u></p> <p>STARTED DEVEL: <u>11-9-20 1:12:35</u></p> <p style="text-align: center;">DATE TIME</p> <p>W.L. BEFORE DEVEL: <u>37.80 11-9-20 1:20:2</u></p> <p style="text-align: center;">DEPTH DATE TIME</p> <p>WELL DEPTH BEFORE DEVEL: <u>100.85</u></p> <p>STANDING WATER COLUMN (FT.): <u>63.60</u></p> <p>SCREEN LENGTH: <u>10</u></p>	<p>JOB NO. <u>16128-1113</u></p> <p>DATE OF INSTALL: _____</p> <p>COMPLETED DEVEL: _____</p> <p style="text-align: center;">DATE TIME</p> <p>AFTER DEVEL: _____</p> <p style="text-align: center;">DEPTH DATE TIME</p> <p>AFTER DEVEL: _____</p> <p>STANDING WELL VOLUME: _____ gal</p> <p>DRILLING WATER LOSS: _____ gal</p> <p style="text-align: right;">WELL NO. <u>B-107D</u></p> <p style="text-align: right;">SHEET <u>1</u> OF <u>4</u> <u>5</u></p> <p style="text-align: right;">AM</p>
--	--

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS				REMARKS
		SPEC. COND (µS/cm)	TEMP (°C)	pH (a.u.)	Turbidity (NTU)	
11-9-20/12:35	0	494.85	22.38	6.62	7000	1 foot from bottom level down
13:05	5	337.95	22.58	6.78	12.8	3' after surging (DLW 64.4)
13:55	10	21.16	20.77	7.04	57.6	STW = 41.70
		Well went dry want for well to recharge				
		Bottom flushing hole will done development after				
13:57						DTW = 91.37
14:00		325.03				DTW = 90.80
14:05	18.70	365.03	25.15	7.35	99.9	DTW = 87.07
		Well went dry want for recharge				
14:35						DTW = 92.30
15:07						DTW = 91.30
15:30						DTW = 90.40
16:18	0	349.44	24.58	9.66	38.10	DTW = 87.10
16:30	12.80	388.50	21.91	6.88	32.20	Surged, 5' DTW = 87.07
		Well went dry, re-charge tomorrow				
		= TOTAL VOLUME REMOVED (gal)				

STW 64.4

DEVELOPMENT METHOD: 0.5 gpm/min surging and reclaim pump

NOTES:

WELL DEVELOPMENT FIELD RECORD

JOB NAME NES DEVELOPMENT
 DEVELOPED BY J. WAGNER
 STARTED DEVEL. 11-9-20 / 12:35
DATE TIME
 W.L. BEFORE DEVEL. 29.20 / 11-9 / 12:28
DEPTH DATE TIME
 WELL DEPTH BEFORE DEVEL. 100.85
 STANDING WATER COLUMN (FT.) 67.68
 SCREEN LENGTH 10' : 90.85 = 100.85

JOB NO. 166849618 WELL NO. B-1090
 DATE OF INSTALL. _____ SHEET 2 OF 5
 COMPLETED DEVEL. _____
DATE TIME
 AFTER DEVEL. _____
DEPTH DATE TIME
 AFTER DEVEL. _____ WELL DIA. (in) _____
 STANDING WELL VOLUME _____ gal.
 DRILLING WATER LOSS _____ gal.

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS						Do	eAP	REMARKS PTW	PUMP IN = Bottom + Notes
		SPEC. COND. (microhm)	TEMP. (°F)	pH (s.u.)	Turbidity (NTU)						
<u>11-10-20 / 10:35</u>	<u>19.7</u>	<u>RESUME</u>	<u>DEVELOPMENT</u>						<u>45.70</u>	<u>5', surge</u>	
<u>10:40</u>	<u>20</u>	<u>451.7</u>	<u>18.72</u>	<u>6.39</u>	<u>11.7</u>	<u>2.24</u>	<u>-2.78</u>	<u>63.7</u>		<u>Surge</u>	
<u>10:47</u>	<u>25</u>	<u>457.4</u>	<u>18.16</u>	<u>6.50</u>	<u>39.3</u>	<u>2.41</u>	<u>-5.6</u>	<u>68.5</u>			
<u>10:54</u>	<u>27</u>	<u>445.4</u>	<u>18.58</u>	<u>6.32</u>	<u>52.7</u>	<u>2.51</u>	<u>-9.2</u>	<u>STOP</u>		<u>Abandoned</u>	
<u>12:00</u>	<u>27</u>							<u>87.7</u>			
<u>12:10</u>	<u>29</u>	<u>442.4</u>	<u>19.05</u>	<u>6.52</u>	<u>36.8</u>	<u>3.75</u>	<u>-44.2</u>	<u>STOP</u>		<u>Abandoned</u>	
<u>12:30</u>	<u>29</u>	<u>4</u>						<u>87.8</u>			
<u>13:40</u>	<u>31</u>	<u>444.1</u>	<u>18.81</u>	<u>6.38</u>	<u>22.7</u>	<u>2.73</u>	<u>-67.9</u>	<u>STOP</u>		<u>Abandoned</u>	
<u>14:48</u>	<u>31</u>							<u>88.9</u>			
<u>14:50</u>	<u>33</u>	<u>443.8</u>	<u>15.00</u>	<u>6.45</u>	<u>19.9</u>	<u>2.66</u>	<u>-64.8</u>	<u>STOP</u>		<u>Abandoned</u>	
= TOTAL VOLUME REMOVED (gal)											

DEVELOPMENT METHOD RESUME + SURGE

NOTES: STOP: Below Top of Pump



WELL DEVELOPMENT FIELD RECORD

3 of 5
numbers

PROJECT NAME / PROPERTY: _____

WELL ID: B-109P

WELL ORIGIN: 2

DATE OF INSTALL: _____

DEVELOPED BY: K. M. [unclear]

COMPLETED DEVEL: _____

STARTED DEVEL: 12/14/20

WL AFTER DEVEL: _____

WL BEFORE DEVEL: 78.55, 78.17, 78.15, 78.0

WELL DEPTH AFTER DEVEL: _____

WELL DEPTH BEFORE DEVEL: 102.18

STANDING WELL VOLUME: _____

STANDING WATER COLUMN (FT): 10.24 (40 - 1)

SPILLING WATER LOSS: _____

SCREEN LENGTH: 42.0

DATE/TIME	VOL. LOSS REMOVED (gal)	FLOWING RATE (gpm)	LIFT (ft)	FIELD PARAMETERS							REMARKS	
				jet (in)	No. (and offsets)	TEMP (°F)	Pressure (PSI)	Color	PH (mg/L)	ORP (mv)		
12/14/20	-	-	78.55									
1530	0.5	0.5	78.0	2.42	0.14	16.2	20.5	gray	1.79	65.6		
1533	5	0.5	77.8	6.49	0.14	15.20	38.1	clear	10.99	113		
1600	7.5	0.5	78.05	1.28	0.13	16.20	36.7	15.0	10.0	71.4		
1610	10		78.0									very little pump flow over 100/200
1633			78.1									
1638			78.6									
12/15 - 97			78.28				7					
101				6.21	0.16	10.2	21.5	cloudy	2.59	116.2		Plan change as per
1010	0.5	0.5	63.19	6.22	0.15	16.31	31.5	white	4.40	116		flow for and fuel test
1020			78.1									flow for and fuel test
1023							19.5					
1027			78.26									as per
1031			78.21									
1040	~10		78.10	6.93	0.18	17.10	106.0	white	11.57	~21		DI flow cut DCE/PAUSE
1044			78.0									
1053			78.44									
1058			78.11									
1059			78.0									
1059	~9		78.0	6.36	0.17	18.26	19.2	gray	4.36	27.9		End of DCE
1059			78.0									and fuel test
1059			78.31									
1059			78.31									
1059			78.70	6.99	0.05	18.10	76.4	1.60	11.17	-31.7		Flow PDC Flow on DI
1059	9		78.31									
1200	11		78.0									
12/15/20			78.51									
973	0.3		78.96									
1000	~31											

12.14-20
10gal
recharge
2-0.62' per
min

20gal
Purge
2.34gal
Purge

3
purge to
test for DI

DEVELOPMENT METHOD: surging and reclaimer pump

NOTES: 12/14/20-12/15/20:

10gal Type I DI water added to assist with surging (slow recharge).

31gal purge total - 10gal DI addition = 21gal removed

WELL DEVELOPMENT FIELD RECORD

11 of 3
2507

PROJECT NAME / NUMBER _____ WELL NO. 109-D

WELL DRILLER _____ DATE OF INSTALL _____

DEVELOPER BY _____ COMPLETED DEPTH _____

STARTED DEPTH _____ DATE _____ DATE _____

WL BEFORE DEVEL SL 11/16/13 25 WL AFTER DEVEL _____

WELL DEPTH BEFORE DEVEL _____ WELL DEPTH AFTER DEVEL _____

STANDING WATER COLUMN (FT) _____ STANDING WELL COLUMN _____

SCREEN LENGTH _____ SPINDLE WATER LOGS _____

DATE/TIME	WELL DEPTH (FT)	FLOWING RATE (GPM)	SPM	pH	Sp. Grav	TEMP (°F)	SOLUBILITY		SOL	SPT	REMARKS
							Ca	Mg			
11/16/13	600	5700	6.82	1.00	12.5	75-1	6.8	98.8			RECLAIM DEVELOPMENT
1400	600	6000	6.93	1.04	13.6	74.7	6.8	100/100	75		
1410	550	7000									
1420											

997.6

~3

DEVELOPMENT ABILITY surging and reclaimer pump

NOTES _____

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER: Plant McArthur WELL NO: B-109 D
 WELL ID: 2
 DEVELOPED BY: _____ DATE OF INSTALL: _____
 STARTED DATE: 12/16/20 COMPLETED DATE: _____
 WI BEFORE DEVEL: _____ WI AFTER DEVEL: _____
 WELL DEPTH BEFORE DEVEL: _____ WELL DEPTH AFTER DEVEL: _____
 STANDING WATER COLUMN (FT): _____ STANDING WELL VOLUME: _____
 DESIGN LENGTH: _____ DESIGN WATER LOSS: _____

DATE/TIME	WELL VOLUME REMOVED (GAL)	FLOWING RATE (GPM)	TYPE (RINGS)	FIELD PARAMETERS							REMARKS
				WT (PSI)	Sp. Grav (WT/L)	TEMP. (°C)	Flowing (GPM)	Time	Flow (GPM)	Flow (GPM)	
12/16 14:23		350	70-75	6.38	0.83	12.43	2400		9.38	107.6	
14:57			76.0	6.41	0.82	12.34	221		9.31	106.6	
14:40		200	71.9	6.41	0.82	12.23	17		9.24	107.0	more pump to 98
14:50			78-80	6.40	0.83	12.47	12.6		9.28	112.3	
15:03			81-83	6.43	0.82	12.41	12.6		9.38	117.5	
15:10			81-82	6.43	0.82	12.41	12.5		9.30	118.1	
15:20		200	82-84	6.44	0.81	12.47	18.4		9.36	120.3	
15:30			84-86	6.47	0.81	12.56	12.5		9.36	116.1	
15:40			87-88	6.51	0.81	12.71	12.5		9.38	120.8	
15:50	~4.5		770P								more pump to 98
16:10			Flow Pumping								higher O.S. water
16:20			stop								more pump to 98
16:22		150	90.5	6.48	0.81	12.75	6.36		9.43	120.2	
16:43				6.53	0.82	11.66	9.34		9.35	121.3	
16:50	5	850		6.46	0.82	13.12	2.47		9.30	120.3	
	~9.5										

RDP
60-76

note
RDP to 950
+ 5 gal
DI water

DEVELOPMENT METHOD: surging and reclaim pump
 NOTE: 12/16: 9.5gal total gal removed - 5gal Type I DI water addition
= 4.5gal removed for 12/16/20.
TOTAL: 15gal Type I DI water added, ~94.5gal removed.
= 79.5gal removed

WELL DEVELOPMENT FIELD RECORD

well # 2

PROJECT NAME / NUMBER: 1688008 / McRough
 WELL OR ID: 2
 DEVELOPER BY: K. Mathan
 STARTED LEVEL: 128.2 - 128.2
 WELL DEPTH BEFORE LEVEL: 8.19 - 8.19
 WELL DEPTH AFTER LEVEL: 63.05
 STANDARD WATER COLUMN (FT.): 50.75
 BOREHOLE LENGTH: 53.61

WELL ID: B-110D
 DATE OF BEING: 12-20/15
 COMPLETED LEVEL: 62.05
 WELL DEPTH AFTER LEVEL: 63.05
 STANDARD WELL VOLUME: _____
 WELL AND WATER LOSS: _____

DATE/TIME	WELL ID	FLUID TYPE	FLOW RATE (GPM)	FIELD PARAMETERS								REMARKS
				ST	SL	TEMP	TURB	COND	PH	ORP	TEMP	
04/11/15	CA	-	-	6.48	0.28	17.2	70.6	16.45	1.75	-104	Pressure 61'	
1216	5	0.5	3200	7.01	0.17	15.9	81	16.5	12.0	72.3		
1341	10	0.5	3200	7.75	0.24	14.2	71.6	16.5	11.0	73.8		
1391	-	-	Repaired	yank, wash, FF sand								Drill 100'
1445	-	-	350									
1545	-	-	47.16									
1600	10	0.7	480									Recur DEP
1605	11.6	0.7	480	7.78	0.47	12.9	70.1	16.5	4.1	-40.1		
1014	10.13	0.7	580	7.91	0.12	12.9	51.8	16.5	12.1	110.1		
				no air, well dry								no air to 100'
12-9/14			1150									no air to 100'
9:00	2.6	0.5	53.9	7.15	0.41	14.4	70.1	16.5	3.76	-100.1	Begin pump	
9:10	5	0.7	480	7.30	0.39	14.7	73.8	16.5	10.26	72.7		
9:40	2.5	0.25	36.9	7.74	0.41	14.7	71.1	16.5	8.11	71	Pressure 61', 100'	
9:50-10:00	-	-	no	pump stop while well checked								APP Seal 12.5'
10:15			498									Running DEP
10:20	4.47	0.5	57.8									DRY, well 100' (100')
10:30												APP Seal 12.5'
10:35												APP Seal 12.5'
11:15			12.40									Seal 12.5', 100'
11:17												RESUME DEP
11:20												Pressure 61'
11:30												Pressure 61'
11:40			770									DRY
11:55												PULLING pump well develop 7000' of bladder pump
12:00			6.11									
12:15			9.56									Pressure @ 58' (bladder)
12:35												
13:00												
14:40												pressure filled, cur of hole

170-1405
 ~3.97 ft
 1" hole
 1402-1500
 6.07 ft
 1402-1500

no air to 100'

Pressure 61', 100'

Pressure 61'

DEVELOPMENT METHOD: surging and reclaimer pump

NOTES: Excavated well 4X (3X w/ Typ I PI water).
 12/10 - Used bladder pump for 100' due to ground pressure reduction
 = Partial cure w/ bladder pump, then hole

WELL DEVELOPMENT FIELD RECORD

15-1162

PROJECT NAME / NUMBER _____
 WELL NO. _____
 DEVELOPED BY _____
 STARTED DATE: _____
 WELL DEPTH BEFORE DEVELOPMENT _____
 STANDARD WELL VOLUME (FT³) _____
 OTHER LOSS _____

WELL ID _____
 DATE OF INSTALL _____
 COMPLETED DATE: _____
 WEL AFTER DEVELOPMENT: 62.25 (DATE) 12/14 (YEAR)
 WELL DEPTH AFTER DEVELOPMENT: 63.25
 STANDARD WELL VOLUME: 8.163
 OTHER WELL WATER LOSS: _____

DATE/TIME	WELLAGE REMOVED (GAL)	PLASTER DATE	STBY (HR)	FIELD PARAMETERS						REMARKS	
				WT (LB)	SG CORR	TEMP (°F)	THICK (IN)	CORR	LOSS (GAL)		LOSS (GAL)
12/14/01 19:47			21.75								Final vol
15:24	5		49.96	8.31	0.35	15.67	14.1	21R	3.60	-260.1	
15:32	6.7		53.19	7.81	0.37	15.53	5.67	21R	4.86	-270.7	
15:34			62.25	7.89	0.38	15.04	7.50	21R	3.11	-302.4	
Development complete with 5% well completion.											

8.90
 8.79
 15.00 (OJ)
 + 8.72

 41.01 gal
 removed

DEVELOPMENT METHOD: surging, bailer, and reclaimer pump
 NOTES: 12/14 = well evacuated initial volume [4.4 gal]
12/14 = Well evacuated initial volume (8.16 gal) and surged with 13 gal addition of top 5 PJ water -> 15 + 8.14 = [23.3 gal]
12/14 = Purged 12 w/ bladder pump and bailed from RTU, pump rechecked.

- partial dew data available before bursting (non-flow)

Product Name: Low-Flow System

Date: 2020-12-10 14:43:29

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 647057
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 58 ft

Pump placement from TOC 58 ft

Well Information:

Well ID B-110D
Well diameter 2 in
Well Total Depth 63.06 ft
Screen Length 10 ft
Depth to Water 9.56 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4738785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:20:23	1502.02	16.83	7.42	396.91	--	--	1.23	-274.34
Last 5	14:25:23	1802.02	16.99	7.44	397.72	1.36	12.73	1.19	-273.39
Last 5	14:30:24	2102.87	16.58	7.44	396.49	--	--	1.70	-259.67
Last 5	14:35:24	2402.87	16.27	7.45	395.95	1.30	16.42	1.07	-329.97
Last 5	14:40:24	2702.87	16.25	7.45	395.18	1.20	18.89	0.93	-342.70
Variance 0			-0.40	0.00	-1.23			0.52	13.72
Variance 1			-0.31	0.00	-0.54			-0.63	-70.30
Variance 2			-0.02	0.01	-0.77			-0.14	-12.73

Notes

Well in process of development. Previously evacuated 4x 12/8 and 12/9. Will resume evacuation 12/10 with bailer.

Grab Samples

WELL DEVELOPMENT FIELD RECORD

JOB NAME: <u>NES DEVELOPMENT</u> DEVELOPED BY: <u>J. V. ADWESTACK</u> STARTED DEVEL: <u>11/06/20 11:40</u> <small>DATE TIME</small> W.L. BEFORE DEVEL: <u>9.58 11/06 11:00</u> <small>DEPTH DATE TIME</small> WELL DEPTH BEFORE DEVEL: <u>85.80' spec</u> STANDING WATER COLUMN (FT.): <u>76.22</u> SCREEN LENGTH: <u>10' : 75.80 - 85.80'</u>	JOB NO. <u>166849618</u> WELL NO. <u>B-111D</u> DATE OF INSTALL: _____ SHEET <u>1</u> OF <u>2</u> COMPLETED DEVEL: <u>11.09.20 11:41</u> <small>DATE TIME</small> AFTER DEVEL: <u>14.35 11.09 11:41</u> <small>DEPTH DATE TIME</small> AFTER DEVEL: <u>85.80</u> WELL DIA (IN) <u>2</u> STANDING WELL VOLUME: <u>12.9</u> GPH DRILLING WATER LOSS: _____ GPH
--	---

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS						DO	ORP	REMARKS OTW	PUMP FROM BOTTOM + NOTES
		SPEC COND. (µS/cm)	TEMP. (°C)	pH (25°C)	Turbidity (NTU)						
<u>11/06/11:40</u>	<u>0</u>	<u>0 BEAM</u>	<u>DEVEL</u>	<u>OPMENT</u>					<u>9.58</u>	<u>CRACK SCREEN</u>	
<u>11:50</u>	<u>5</u>	<u>693.3</u>	<u>18.41</u>	<u>7.08</u>	<u>34.7</u>	<u>1.28</u>	<u>-419.2</u>	<u>22.8</u>		<u>6" SURGE</u>	
<u>12:00</u>	<u>10</u>	<u>710.6</u>	<u>18.43</u>	<u>7.07</u>	<u>47.0</u>	<u>1.17</u>	<u>-389.7</u>	<u>26.4</u>		<u>SURGE</u>	
<u>12:10</u>	<u>15</u>	<u>706.9</u>	<u>18.35</u>	<u>7.04</u>	<u>32.0</u>	<u>1.17</u>	<u>-374.6</u>	<u>29.9</u>		<u>SURGE</u>	
<u>12:20</u>	<u>20</u>	<u>736.4</u>	<u>18.26</u>	<u>6.97</u>	<u>17.3</u>	<u>1.16</u>	<u>-352.6</u>	<u>32.1</u>		<u>SURGE SCREEN</u>	
<u>12:30</u>	<u>25</u>	<u>786.7</u>	<u>17.90</u>	<u>6.91</u>	<u>31.0</u>	<u>1.14</u>	<u>-293.8</u>	<u>34.45</u>		<u>SURGE</u>	
<u>12:40</u>	<u>30</u>	<u>794.0</u>	<u>17.87</u>	<u>6.87</u>	<u>27.8</u>	<u>1.12</u>	<u>-287.1</u>	<u>35.9</u>			
<u>12:50</u>	<u>35</u>	<u>798.2</u>	<u>17.88</u>	<u>6.86</u>	<u>17.4</u>	<u>1.07</u>	<u>-225.5</u>	<u>35.7</u>		<u>SURGE</u>	
<u>13:00</u>	<u>40</u>	<u>801.2</u>	<u>17.92</u>	<u>6.80</u>	<u>16.2</u>	<u>1.15</u>	<u>-194.6</u>	<u>36.9</u>			
<u>13:10</u>	<u>45</u>	<u>805.7</u>	<u>17.95</u>	<u>6.84</u>	<u>14.7</u>	<u>1.13</u>	<u>-152.3</u>	<u>37.1</u>		<u>SURGE SCREEN</u>	
<u>13:20</u>	<u>50</u>	<u>811.8</u>	<u>17.85</u>	<u>6.83</u>	<u>23.2</u>	<u>1.17</u>	<u>-186.0</u>	<u>38.0</u>			
<u>13:30</u>	<u>55</u>	<u>815.3</u>	<u>17.85</u>	<u>6.82</u>	<u>22.6</u>	<u>1.16</u>	<u>-126.8</u>	<u>38.2</u>			
<u>13:40</u>	<u>60</u>	<u>815.8</u>	<u>18.01</u>	<u>6.82</u>	<u>12.4</u>	<u>1.25</u>	<u>-80.2</u>	<u>38.7</u>		<u>-> 3' SURGE</u>	
<u>13:50</u>	<u>65</u>	<u>814.2</u>	<u>18.03</u>	<u>6.82</u>	<u>21.3</u>	<u>1.33</u>	<u>-92.4</u>	<u>40.35</u>		<u>SURGE</u>	
<u>14:00</u>	<u>70</u>	<u>817.5</u>	<u>18.02</u>	<u>6.81</u>	<u>19.9</u>	<u>1.35</u>	<u>-73.8</u>	<u>40.8</u>			
<u>14:10</u>	<u>75</u>	<u>822.0</u>	<u>17.99</u>	<u>6.80</u>	<u>7.15</u>	<u>1.84</u>	<u>-85.5</u>	<u>41.2</u>		<u>-> 6' SURGE</u>	
<u>14:20</u>	<u>80</u>	<u>814.1</u>	<u>17.81</u>	<u>6.82</u>	<u>12.0</u>	<u>1.90</u>	<u>-81.2</u>	<u>43.1</u>		<u>SURGE</u>	
<u>14:30</u>	<u>85</u>	<u>820.5</u>	<u>17.74</u>	<u>6.80</u>	<u>8.6</u>	<u>1.93</u>	<u>-72.9</u>	<u>44.4</u>		<u>-> 9' SURGE</u>	

= TOTAL VOLUME REMOVED (gpm)

DEVELOPMENT METHOD: REINAMER + SURGING
 Flow RATE = 0.5 gpm

NOTES WELL PAV TO BE INSTALLED, DEPTHS MEASURED FROM TOL

WELL DEVELOPMENT FIELD RECORD

JOB NAME NES DEVELOPMENT
 DEVELOPED BY J. WAGERSPACK
 STARTED DEVEL 11/06/20 / 11:40
DATE TIME
 W.L. BEFORE DEVEL 9.58 / 11/06 / 11:00
DEPTH DATE TIME
 WELL DEPTH BEFORE DEVEL 85.80' BTOZ
 STANDING WATER COLUMN (FT) 76.22'
 SCREEN LENGTH 10' : 75.80 - 85.80'

JOB NO. 16684962 WELL NO. B-111D
 DATE OF INSTALL _____ SHEET 2 OF 2
 COMPLETED DEVEL 11/09/20 / 11:41
DATE TIME
 AFTER DEVEL 14.35 / 11/09 / 11:41
DEPTH DATE TIME
 AFTER DEVEL 85.30' WELL DIA (IN) 2
 STANDING WELL VOLUME _____ gal
 DRILLING WATER LOSS _____ gal

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS						Do	s/RP	REMARKS DTW	Pump from Bottom + NOTES
		SPEC COND. (mS/cm)	TEMP (°C)	pH (su)	Turbidity (NTU)						
11/06/14:14	90	820.3	17.72	6.81	9.86	1.61	-75.5	47.1	9' surge		
14:50	95	825.8	17.72	6.79	9.1	1.58	-77.2	48.8	-> 6" surge		
15:00	100	842.2	17.71	6.79	59.0	1.20	-83.2	44.9			
15:10	105	839.5	17.65	6.78	90.5	1.10	-82.8	43.1			
15:20	110	809.3	17.62	6.67	104.7	1.02	-82.6	42.7			
15:30	115	808.4	17.61	6.68	50.8	1.07	-80.3	42.8	surge		
15:40	120	807.7	17.59	6.68	37.1	1.10	-80.1	42.8			
15:50	135	811.3	17.59	6.67	27.9	1.19	-85.6	42.6			
16:00	130	813.5	17.56	6.68	31.1	1.18	-83.1	42.7			
16:10	135	813.6	17.57	6.68	10.27	1.20	-80.1	42.3			
16:20	140	817.9	17.59	6.67	5.08	1.20	-88.9	41.8	-> 5' recharge		
11/09/10:25	140	RESUME DEV						2.65	6' surge		
10:35	145	871.6	19.26	6.77	7.74	2.62	-265.3	13.50	-> 5'		
10:45	150	806.7	18.65	6.87	7.90	1.26	-213.9	24.7			
		Reclaiming for low flow dev - 0.5 gpm @ 11:06									
11:06		792.7	21.78	7.06	7.2	1.98	-26	13.00	5' 2000lb		
11:41	+2.7 gal	826.8	20.03	6.88	1.16	0.12	-389.3	14.35			
		low flow dev COMPLETE									
	152.7	= TOTAL VOLUME REMOVED (gal)									

DEVELOPMENT METHOD: RECLAIMER + SURGING
 Flow Rate = 0.5 gpm

NOTES:

Product Name: Low-Flow System

Date: 2020-11-09 11:44:45

Project Information:

Operator Name Jude Waguespack
Company Name Golder
Project Name 166849618
Site Name Plant McDonough
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Reclaimer
Tubing Type LDPE
Tubing Diameter .250 in
Tubing Length 80 ft

Pump placement from TOC 80 ft

Well Information:

Well ID B-111D
Well diameter 2 in
Well Total Depth 85.80 ft
Screen Length 10 ft
Depth to Water 13.00 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 2.302218 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16.2 in
Total Volume Pumped 10.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:21:36	900.58	20.17	6.88	815.91	2.19	14.45	0.18	-426.21
Last 5	11:26:36	1200.58	19.72	6.89	817.90	1.26	14.35	0.15	-415.17
Last 5	11:31:36	1500.58	19.68	6.89	820.50	1.33	14.35	0.14	-374.46
Last 5	11:36:36	1800.58	19.89	6.88	822.11	0.89	14.35	0.13	-374.89
Last 5	11:41:36	2100.59	20.03	6.88	826.81	1.16	14.35	0.12	-384.27
Variance 0			-0.04	0.00	2.60			-0.02	40.71
Variance 1			0.21	-0.00	1.61			-0.01	-0.43
Variance 2			0.14	-0.00	4.70			-0.01	-9.38

Notes

Skipped reading at 600s

Grab Samples

Oct 2020

October 2019

Daily Calibration Log

166849618

Project Plant McDonough
Field Staff Stephanie Brodie

Instrument Calibration

Date: 10/29/20 Time: 10:22

Parameter	Units	Standard	SmarTROLL SN 512737	SmarTROLL SN 512733	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	93.1%	93.1		
Conductivity	ms/cm	1413	4615	4484		
pH	S.U.	4.00	4.11	4.31		
pH	S.U.	7.00	7.06	7.10		
pH	S.U.	10.00	9.95	9.90		
ORP	mV	228	223.6	176.8		

1386-3811

Turbidity Standard	Units	LaMotte SN 1386-3811	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
0.0	NTU	0.02	0.00		
1.0	NTU	1.00	1.01		
10.0	NTU	9.94	10.00		

Date: Time:

Parameter	Units	Standard	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100				
Conductivity	ms/cm	1413				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV					

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

Notes: DO - Dissolved Oxygen; ms/cm - millisiemens/second; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units



October 2019
Nov 2020

Daily Calibration Log

166849618

Project Plant McDonough
Field Staff JUDIE WAGUESPAK

Instrument Calibration

Date: 11/02/20 Time: 08:30 11/03/20 11/04/20 11/05/20
08:00 08:02 08:19

Parameter	Units	Standard	SmarTROLL SN 512733	SmarTROLL SN 512733	SmarTROLL SN 512733	SmarTROLL SN 512733
DO	% saturation	100	94.4	94.9	95.3	93.3
Conductivity	ms/cm	341399	4549	4461	4440	4419
pH	S.U.	4.00	4.46	4.49	4.46	4.43
pH	S.U.	7.00	7.10	7.06	7.03	6.97
pH	S.U.	10.00	9.76	9.72	9.74	9.71
ORP	mV	228.0	246.8	244.0	243.2	217.0

Turbidity Standard	Units	LaMotte SN 1386-3811	LaMotte SN 1386-3811	LaMotte SN 1386-3811	LaMotte SN
0.0	NTU	0.01	0.06	0.00	
1.0	NTU	0.82	0.93	1.08	
10.0	NTU	12.1	10.45	9.71	

Date: 11/06/20 Time: 08:45 11/09/20 11/10/20 11/11/20
09:12 08:57 07:59

Parameter	Units	Standard	SmarTROLL SN 512733	SmarTROLL SN 512733	SmarTROLL SN 512733	SmarTROLL SN 512733
DO	% saturation	100	94.9	93.2	94.2	92.5
Conductivity	ms/cm	341399	4363	4292	4406	4367
pH	S.U.	4.00	4.36	4.33	4.34	4.28 4.35
pH	S.U.	7.00	6.91	6.88	7.14	7.12
pH	S.U.	10.00	9.70	9.72	9.95	9.97
ORP	mV	228.0	233.9	225.9	227.2	221.7

Turbidity Standard	Units	LaMotte SN 1386-3811	LaMotte SN 1386-3811	LaMotte SN 1386-3811	LaMotte SN 1386-3811
0.0	NTU	0.0	0.01	0.0	0.01
1.0	NTU	0.83	0.82	0.86	1.05
10.0	NTU	11.46	12.02	11.73	9.23

Notes: DO - Dissolved Oxygen; ms/cm - millisiemens/second; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units

October 2020

Daily Calibration Log

100040610

Project Plant McDonough
 Field Staff C. Tidwell/D. Thomas/J. Waguespack

Instrument Calibration

Date: 11-9-20 Time: 0750

Parameter	Units	Standard	SmarTROLL SN 728623	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	100			
Conductivity	us/cm	4490	4327			
pH	S.U.	4.00	3.83			
pH	S.U.	7.00	7.01			
pH	S.U.	10.00	9.97			
ORP	mV	228.00	203.0			

Turbidity	Units	Standard	LaMotte SN 4405-146	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

Date: 11-11-20 Time: 0735

Parameter	Units	Standard	SmarTROLL SN 728623	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	100			
Conductivity	us/cm	4490	4087			
pH	S.U.	4.00	4.01			
pH	S.U.	7.00	6.66			
pH	S.U.	10.00	9.67			
ORP	mV	228.00	206.8			

Turbidity	Units	Standard	LaMotte SN 4405-146	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	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 C. Tidwell/D. Thomas/J. Waguespack

Instrument Calibration

Date: 11-12-20 Time: 0814

Parameter	Units	Standard	SmarTROLL SN 728623	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	98.91			
Conductivity	us/cm	4490	4330			
pH	S.U.	4.00	3.99			
pH	S.U.	7.00	7.34			
pH	S.U.	10.00	10.38			
ORP	mV	228.00	231.3			

Turbidity	Units	Standard	LaMotte SN 6405-1416	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	10.0			

Date: 11-13-20 Time: 0739 11-17-20/085

Parameter	Units	Standard	SmarTROLL SN 728623	SmarTROLL SN _____	SmarTROLL SN _____	SmarTROLL SN 728623
DO	% saturation	100	99.41			100
Conductivity	us/cm	4490	4352			4495
pH	S.U.	4.00	3.97			4.05
pH	S.U.	7.00	7.04			7.11
pH	S.U.	10.00	9.96			10.51
ORP	mV	228.00	238.3			237

Turbidity	Units	Standard	LaMotte SN 6405-1416	LaMotte SN _____	LaMotte SN _____	LaMotte SN 6405-1416
	NTU	0.0	0.0			
	NTU	1.0	1.0			
	NTU	10.0	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 K. Minkara / J. Waguespack / Y.G. Soo

Instrument Calibration

		Date	12/8/10	12/9/10		
		Time	06:38	06:30		
Parameter	Units	Standard	SmartROLL SN 646777 iPad # 074	SmartROLL SN 646777 iPad # 074	SmartROLL SN _____ iPad # _____	SmartROLL SN _____ iPad # _____
DO	% saturation	100	95.2	96.0		
Conductivity	us/cm	4400	4478	4491		
pH	S.U.	4.00	4.31	4.32		
pH	S.U.	7.00	7.10	7.07		
pH	S.U.	10.00	9.87	9.88		
ORP	mV	220.00	238.3	234.1		

Turbidity	Units	Standard	LaMotte SN 438-311	LaMotte SN 438-311	LaMotte SN	LaMotte SN
	NTU	0.0	0.01	0.01	0.02	
NTU	1.0	1.0	1.24	1.13		
NTU	10.0	10.0	9.12	8.17		

		Date				
		Time				
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	SmartROLL SN _____ iPad # _____	SmartROLL SN _____ iPad # _____	SmartROLL SN _____ iPad # _____
DO	% saturation	100				
Conductivity	us/cm	4400				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	220.00				

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

Dec 2020

16684968

November 2019

Daily Calibration Log

40132023

Project Plant McDonough
 Field Staff K. Minkara / J. Wagnerspack / Y.C. Soe

Instrument Calibration

		Date	12/8/20	12/9/20	12/10/20	12/11/20
		Time	0630	0615	1300	1010
Parameter	Units	Standard	SmartROLL SN 41757 iPad # 93	SmartROLL SN 41757 iPad # 93	SmartROLL SN 41757 iPad # 93	SmartROLL SN _____ iPad # _____
DO	% saturation	100	92.3	95.3	92.7	
Conductivity	us/cm	4400	4177	4211	4204	
pH	S.U.	4.00	6.19	6.31	6.12	
pH	S.U.	7.00	6.73	6.95	6.96	
pH	S.U.	10.00	7.31	7.83	7.88	
ORP	mV	228.00	227.4	228.3	225.8	

} R. A. 20.
 101 p/d

Turbidity	Units	Standard	LaMotte SN 1007-191	LaMotte SN 1007-191	LaMotte SN 1007-191	LaMotte SN 1007-191
	NTU	0.0	0.0	0.01	0.01	0.05	0.06
	NTU	1.0	0.828	0.92-1.0	1.02	1.11
	NTU	10.0	10.11	10.01	9.88	9.89

		Date	12-15-20	12-16-20	12-17-20	
		Time	0600	0630	0630	
Parameter	Units	Standard	SmartROLL SN 41757 iPad # 93	SmartROLL SN 41757 iPad # 93	SmartROLL SN 41757 iPad # 93	SmartROLL SN _____ iPad # _____
DO	% saturation	100	92.7	92.1	94.0	
Conductivity	us/cm	4400	4174	4223	4205	
pH	S.U.	4.00	6.22	6.25	6.21	
pH	S.U.	7.00	6.79	6.99	6.98	
pH	S.U.	10.00	7.28	7.76	7.25	
ORP	mV	228.00	228.2	227.1	228.4	

Turbidity	Units	Standard	LaMotte SN 1007-191	LaMotte SN 1007-191	LaMotte SN 1007-191	LaMotte SN _____
	NTU	0.0	0.0	0.01	0.01	0.02
	NTU	1.0	0.85	0.77	1.01	
	NTU	10.0	10.12	10.01	10.00	

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

Doc 2.2.0
November 2010

Daily Calibration Log

786 JWP/ky
19132620

Project Plant McDonough
Field Staff K. Minkara / J. Waguespack / Y.C. Soo

Instrument Calibration

		Date	12/7/20	12/8/20	12/9/20	
		Time	1115	0640	0630	
Parameter	Units	Standard	SmarTROLL SN <u>64253</u> iPad # <u>110</u>	SmarTROLL SN <u>64253</u> iPad # <u>110</u>	SmarTROLL SN <u>64253</u> iPad # <u>110</u>	SmarTROLL SN iPad #
DO	% saturation	100	99.9	99.9	100	
Conductivity	us/cm	4400	618	458	4414	
pH	S.U.	4.00	6.24	6.24	6.16	
pH	S.U.	7.00	7.11	6.85	6.56	
pH	S.U.	10.00	9.17	9.19	9.38	
ORP	mV	228.00	210	217	232.5	

Turbidity	Units	Standard	LaMotte SN <u>2289-2612</u>	LaMotte SN <u>2289-2612</u>	LaMotte SN <u>2289-2612</u>	LaMotte SN
	NTU	0.0	0.05	0.02	0.03	
	NTU	1.0	1.75	0.82	1.09	
	NTU	10.0	10.40	10.03	10.08	

		Date	12-15-20	12-16-20	12-17-20	
		Time	0640	0645	0637	
Parameter	Units	Standard	SmarTROLL SN <u>64253</u> iPad # <u>110</u>	SmarTROLL SN <u>64253</u> iPad # <u>110</u>	SmarTROLL SN <u>64253</u> iPad # <u>110</u>	SmarTROLL SN iPad #
DO	% saturation	100	92.0	92.5	93.0	
Conductivity	us/cm	4400	4466	4305	4743	
pH	S.U.	4.00	6.23	6.37	6.48	
pH	S.U.	7.00	7.03	7.42	7.59	
pH	S.U.	10.00	9.88	9.38	9.65	
ORP	mV	228.00	222.0	229.2	246.1	

Turbidity	Units	Standard	LaMotte SN	LaMotte SN <u>2289-2612</u>	LaMotte SN <u>2289-2612</u>	LaMotte SN
	NTU	0.0		0.0	0.05	
	NTU	1.0		1.65	1.05	
	NTU	10.0		10.09	10.05	

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

APPENDIX C

CERTIFIED WELL SURVEY



1400 Highway 20 West • McDonough, GA 30253
phone: 770-797-0777 fax: 770-797-0755
WWW.METRO-ENGINEERING.COM

SURVEYOR'S REPORT

SCOPE OF WORK:

Field survey of existing monitoring wells at Georgia Power Company, Plant McDonough in Smyrna, GA.

Horizontal and vertical datum was derived from RTK GPS observations with corrections from the eGPS 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:

Trimble R8 Dual Frequency 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 Trimble R8 Dual Frequency RTK (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: 5/11/21



Plant McDonough
Monitoring Well Locations
April 11, 2021

Well ID	LATITUDE	LONGITUDE	NAIL NORTHING	NAIL EASTING	NAIL ELEV	PVC NORTHING	PVC EASTING	TOP PVC ELEV	ELEV AT BASE
B-111D	N33.832540	W84.474992	1394302.7	2202956.6	788.99	1394303.6	2202956.4	791.84	789.0
B-112D	N33.825093	W84.482513	1391564.0	2200663.1	765.98	1391564.2	2200664.1	765.58	766.1
B-113D	N33.824270	W84.482329	1391264.7	2200720.2	758.87	1391264.6	2200719.2	758.22	758.8
B-115D	N33.824287	W84.475200	1391266.0	2202580.1	786.43	1391266.3	2202580.7	789.17	786.4
B-116D	N33.822123	W84.482677	1390483.0	2200611.0	805.31	1390483.7	2200611.0	807.82	805.3
B-117D	N33.831666	W84.479036	1393964.7	2201727.1	861.23	1393963.8	2201727.3	863.82	861.2
B-118	N33.824143	W84.483216	1391220.2	2200449.5	804.99	1391219.3	2200449.7	807.70	805.0
B-119D	N33.824190	W84.483226	1391237.5	2200446.4	804.53	1391236.4	2200446.6	807.15	804.5
B-120D	N33.831931	W84.476702	1394046.4	2202436.8	834.03	1394047.2	2202436.4	836.42	834.0

APPENDIX C

Statistical Analyses

GROUNDWATER STATS CONSULTING



February 23, 2021

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 2020 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 2020 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 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, DGWC-48
- **Delineation wells:** B-3, B-56, B-77, B-82, B-83, B-88, B-93

Delineation wells were installed during 2020 and have limited data which are included only on the time series and box plots in this report.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor 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 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 well/constituent pairs with 100% nondetects 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 to demonstrate 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 nondetects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect 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% nondetects.

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 and Trend Testing

Time series plots are 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.

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.

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 2020

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2020 (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 most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When 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 and, therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Several prediction limit exceedances were noted for Appendix III parameters. A summary table of the interwell prediction limits follows this letter.

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 to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends

- Boron: DGWC-4, DGWC-11, and DGWC-17
- Calcium: DGWC-11, and DGWC-19
- Chloride: DGWC-5, DGWC-11, DGWC-15, and DGWC-20
- pH: DGWC-19
- Sulfate: DGWC-19
- TDS: DGWC-4, DGWC-5, and DGWC-11

Decreasing trends

- Boron: DGWC-2, DGWC-8, DGWC-9, DGWC-10, DGWC-13, DGWC-20, DGWC-47 and DGWC-48
- Calcium: DGWC-2, DGWC-48, DGWC-53 (upgradient), and DGWC-71 (upgradient)
- Chloride: DGWC-4, DGWC-19, DGWC-21, DGWC-22, DGWC-23, DGWC-42, and DGWC-48
- pH: DGWC-9
- Sulfate: DGWC-2, DGWC-8, DGWC-20, DGWC-47, DGWC-48, DGWA-70 (upgradient), and DGWA-71 (upgradient)
- TDS: DGWC-8, DGWC-20, DGWC-48, and DGWA-53 (upgradient)

A summary of the trend test results follows this letter.

Statistical Analysis of Appendix IV Parameters – September 2020

Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis and no new outliers were flagged. Interwell tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data 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% nondetects 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. 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 2020 sample event for the federal and state rules (Figure G).

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the federal and state requirements in each downgradient well (Figures H and I, respectively). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for the State requirements. 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:

Federal:

- Arsenic: DGWC-9
- Beryllium: DGWC-5, DGWC-9, DGWC-10, DGWC-47, and DGWC-48
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, and DGWC-48
- Lithium: DGWC-47 and DGWC-48

State:

- Arsenic: DGWC-9
- Beryllium: DGWC-5, DGWC-9, DGWC-10, DGWC-47, and DGWC-48
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, and DGWC-48
- Lithium: DGWC-47, and DGWC-48

While selenium at well DGWC-9 appears as significant in both the federal and state confidence interval summary tables, the limit is not exceeded when the lower confidence limit is rounded to three significant digits—in which case the lower confidence limit is equal to the GWPS.

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,



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects

Analysis Run 10/29/2020 2:07 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Antimony (mg/L)

DGWC-10, DGWC-11, DGWC-13, DGWC-20, DGWC-22, DGWC-42, DGWC-8, DGWC-9, B-3, B-56, B-82, B-83, B-88

Arsenic (mg/L)

DGWC-11, DGWC-13, DGWC-21, DGWC-23, B-3, B-82, B-83, B-88

Beryllium (mg/L)

DGWA-53, DGWC-14, DGWC-2

Cadmium (mg/L)

DGWA-71, DGWC-14, B-77

Chromium (mg/L)

DGWA-53, DGWC-14, B-3, B-82

Cobalt (mg/L)

DGWC-14

Fluoride (mg/L)

B-77, B-82, B-88

Lead (mg/L)

DGWA-53, DGWC-22, B-3

Mercury (mg/L)

DGWC-47, B-77, B-83

Molybdenum (mg/L)

DGWA-70A, 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-56, B-77, B-82, B-83, B-93

Selenium (mg/L)

DGWA-53, DGWA-70A, DGWA-71, DGWC-11, DGWC-21, DGWC-23, DGWC-42, B-77

Thallium (mg/L)

DGWA-53, DGWC-11, DGWC-13, DGWC-14, DGWC-15, DGWC-2, DGWC-21, DGWC-23, B-3, B-77, B-82, B-83, B-88, B-93

Interwell Prediction Limit Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	9/24/2020	0.45	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	9/22/2020	1.3	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	9/22/2020	4.2	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	9/23/2020	0.57	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	9/23/2020	1.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	9/24/2020	0.88	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	9/22/2020	2.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	9/23/2020	0.57	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	9/22/2020	4.9	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	9/24/2020	6.1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	9/24/2020	4.1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	9/24/2020	4.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	9/22/2020	4.3	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	9/22/2020	0.88	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-47	0.13	n/a	9/23/2020	0.21	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	9/23/2020	0.65	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	9/22/2020	4.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	9/23/2020	1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-9	0.13	n/a	9/22/2020	0.78	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40	n/a	9/24/2020	53.1	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40	n/a	9/22/2020	72.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-12	40	n/a	9/22/2020	55.4	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40	n/a	9/22/2020	103	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-2	40	n/a	9/23/2020	44.4	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40	n/a	9/22/2020	79.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40	n/a	9/24/2020	80	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40	n/a	9/24/2020	62.6	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40	n/a	9/24/2020	73.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40	n/a	9/22/2020	263	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-42	40	n/a	9/22/2020	43.8	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40	n/a	9/23/2020	72.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40	n/a	9/22/2020	99.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-9	40	n/a	9/22/2020	54.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	4.5	n/a	9/24/2020	5.9	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-11	4.5	n/a	9/22/2020	16	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-12	4.5	n/a	9/22/2020	10.8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-13	4.5	n/a	9/23/2020	12.6	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-15	4.5	n/a	9/23/2020	22.4	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-17	4.5	n/a	9/24/2020	22.7	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-19	4.5	n/a	9/22/2020	27.6	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-20	4.5	n/a	9/22/2020	25.8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-21	4.5	n/a	9/24/2020	20	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-22	4.5	n/a	9/24/2020	21.5	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-23	4.5	n/a	9/24/2020	13.7	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-4	4.5	n/a	9/22/2020	17	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-42	4.5	n/a	9/22/2020	22.1	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-48	4.5	n/a	9/23/2020	8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-5	4.5	n/a	9/22/2020	10.5	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-8	4.5	n/a	9/23/2020	9.1	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-9	4.5	n/a	9/22/2020	8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limit Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-10	0.42	n/a	9/24/2020	0.97	Yes	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-9	0.42	n/a	9/22/2020	0.99	Yes	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
pH (SU)	DGWC-10	6.6	5.2	9/24/2020	4.89	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-17	6.6	5.2	9/24/2020	5.1	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-19	6.6	5.2	9/22/2020	4.91	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-20	6.6	5.2	9/22/2020	4.66	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-47	6.6	5.2	9/23/2020	4.4	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-48	6.6	5.2	9/23/2020	4.64	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-5	6.6	5.2	9/22/2020	4.83	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-9	6.6	5.2	9/22/2020	4	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-10	36	n/a	9/24/2020	204	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-11	36	n/a	9/22/2020	267	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-12	36	n/a	9/22/2020	183	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-13	36	n/a	9/23/2020	134	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-14	36	n/a	9/22/2020	40.2	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-15	36	n/a	9/23/2020	146	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-17	36	n/a	9/24/2020	259	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-19	36	n/a	9/22/2020	310	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-2	36	n/a	9/23/2020	122	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-20	36	n/a	9/22/2020	408	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-21	36	n/a	9/24/2020	269	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-22	36	n/a	9/24/2020	262	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-23	36	n/a	9/24/2020	215	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-4	36	n/a	9/22/2020	800	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-42	36	n/a	9/22/2020	320	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-47	36	n/a	9/23/2020	111	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-48	36	n/a	9/23/2020	313	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-5	36	n/a	9/22/2020	423	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-8	36	n/a	9/23/2020	178	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-9	36	n/a	9/22/2020	282	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-11	320	n/a	9/22/2020	481	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-12	320	n/a	9/22/2020	338	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-17	320	n/a	9/24/2020	411	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-19	320	n/a	9/22/2020	513	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-20	320	n/a	9/22/2020	724	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-21	320	n/a	9/24/2020	494	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-22	320	n/a	9/24/2020	455	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-23	320	n/a	9/24/2020	456	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-4	320	n/a	9/22/2020	1400	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-42	320	n/a	9/22/2020	547	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-48	320	n/a	9/23/2020	575	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-5	320	n/a	9/22/2020	716	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-8	320	n/a	9/23/2020	333	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-9	320	n/a	9/22/2020	461	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limit Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	9/24/2020	0.45	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	9/22/2020	1.3	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	9/22/2020	4.2	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	9/23/2020	0.57	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-14	0.13	n/a	9/22/2020	0.086J	No	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	9/23/2020	1.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	9/24/2020	0.88	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	9/22/2020	2.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	9/23/2020	0.57	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	9/22/2020	4.9	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	9/24/2020	6.1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	9/24/2020	4.1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	9/24/2020	4.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	9/22/2020	4.3	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	9/22/2020	0.88	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-47	0.13	n/a	9/23/2020	0.21	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	9/23/2020	0.65	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	9/22/2020	4.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	9/23/2020	1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-9	0.13	n/a	9/22/2020	0.78	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40	n/a	9/24/2020	53.1	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40	n/a	9/22/2020	72.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-12	40	n/a	9/22/2020	55.4	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40	n/a	9/23/2020	39	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-14	40	n/a	9/22/2020	11.6	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-15	40	n/a	9/23/2020	35.6	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-17	40	n/a	9/24/2020	12.7	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40	n/a	9/22/2020	103	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-2	40	n/a	9/23/2020	44.4	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40	n/a	9/22/2020	79.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40	n/a	9/24/2020	80	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40	n/a	9/24/2020	62.6	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40	n/a	9/24/2020	73.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40	n/a	9/22/2020	263	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-42	40	n/a	9/22/2020	43.8	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-47	40	n/a	9/23/2020	22.3	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40	n/a	9/23/2020	72.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40	n/a	9/22/2020	99.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-8	40	n/a	9/23/2020	39.3	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-9	40	n/a	9/22/2020	54.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	4.5	n/a	9/24/2020	5.9	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-11	4.5	n/a	9/22/2020	16	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-12	4.5	n/a	9/22/2020	10.8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-13	4.5	n/a	9/23/2020	12.6	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-14	4.5	n/a	9/22/2020	3.2	No	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-15	4.5	n/a	9/23/2020	22.4	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-17	4.5	n/a	9/24/2020	22.7	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-19	4.5	n/a	9/22/2020	27.6	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-2	4.5	n/a	9/23/2020	2.1	No	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-20	4.5	n/a	9/22/2020	25.8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limit Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	DGWC-21	4.5	n/a	9/24/2020	20	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-22	4.5	n/a	9/24/2020	21.5	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-23	4.5	n/a	9/24/2020	13.7	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-4	4.5	n/a	9/22/2020	17	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-42	4.5	n/a	9/22/2020	22.1	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-47	4.5	n/a	9/23/2020	3.3	No	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-48	4.5	n/a	9/23/2020	8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-5	4.5	n/a	9/22/2020	10.5	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-8	4.5	n/a	9/23/2020	9.1	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-9	4.5	n/a	9/22/2020	8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Fluoride (mg/L)	DGWC-10	0.42	n/a	9/24/2020	0.97	Yes	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-11	0.42	n/a	9/22/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-12	0.42	n/a	9/22/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-13	0.42	n/a	9/23/2020	0.058J	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-14	0.42	n/a	9/22/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-15	0.42	n/a	9/23/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-17	0.42	n/a	9/24/2020	0.056J	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-19	0.42	n/a	9/22/2020	0.084J	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-2	0.42	n/a	9/23/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	9/22/2020	0.15	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-21	0.42	n/a	9/24/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-22	0.42	n/a	9/24/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-23	0.42	n/a	9/24/2020	0.075J	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-4	0.42	n/a	9/22/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-42	0.42	n/a	9/22/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	9/23/2020	0.11	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	9/23/2020	0.32	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-5	0.42	n/a	9/22/2020	0.12	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-8	0.42	n/a	9/23/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-9	0.42	n/a	9/22/2020	0.99	Yes	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
pH (SU)	DGWC-10	6.6	5.2	9/24/2020	4.89	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-11	6.6	5.2	9/22/2020	5.54	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-12	6.6	5.2	9/22/2020	6	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-13	6.6	5.2	9/23/2020	5.72	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-14	6.6	5.2	9/22/2020	5.7	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-15	6.6	5.2	9/23/2020	5.85	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-17	6.6	5.2	9/24/2020	5.1	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-19	6.6	5.2	9/22/2020	4.91	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-2	6.6	5.2	9/23/2020	5.99	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-20	6.6	5.2	9/22/2020	4.66	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-21	6.6	5.2	9/24/2020	5.64	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-22	6.6	5.2	9/24/2020	5.69	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-23	6.6	5.2	9/24/2020	6.19	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-4	6.6	5.2	9/22/2020	5.88	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-42	6.6	5.2	9/22/2020	5.76	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-47	6.6	5.2	9/23/2020	4.4	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-48	6.6	5.2	9/23/2020	4.64	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-5	6.6	5.2	9/22/2020	4.83	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-8	6.6	5.2	9/23/2020	5.21	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-9	6.6	5.2	9/22/2020	4	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2

Interwell Prediction Limit Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	DGWC-10	36	n/a	9/24/2020	204	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-11	36	n/a	9/22/2020	267	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-12	36	n/a	9/22/2020	183	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-13	36	n/a	9/23/2020	134	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-14	36	n/a	9/22/2020	40.2	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-15	36	n/a	9/23/2020	146	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-17	36	n/a	9/24/2020	259	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-19	36	n/a	9/22/2020	310	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-2	36	n/a	9/23/2020	122	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-20	36	n/a	9/22/2020	408	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-21	36	n/a	9/24/2020	269	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-22	36	n/a	9/24/2020	262	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-23	36	n/a	9/24/2020	215	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-4	36	n/a	9/22/2020	800	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-42	36	n/a	9/22/2020	320	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-47	36	n/a	9/23/2020	111	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-48	36	n/a	9/23/2020	313	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-5	36	n/a	9/22/2020	423	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-8	36	n/a	9/23/2020	178	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-9	36	n/a	9/22/2020	282	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-10	320	n/a	9/24/2020	283	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-11	320	n/a	9/22/2020	481	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-12	320	n/a	9/22/2020	338	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-13	320	n/a	9/23/2020	278	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-14	320	n/a	9/22/2020	105	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-15	320	n/a	9/23/2020	317	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-17	320	n/a	9/24/2020	411	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-19	320	n/a	9/22/2020	513	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-2	320	n/a	9/23/2020	267	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-20	320	n/a	9/22/2020	724	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-21	320	n/a	9/24/2020	494	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-22	320	n/a	9/24/2020	455	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-23	320	n/a	9/24/2020	456	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-4	320	n/a	9/22/2020	1400	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-42	320	n/a	9/22/2020	547	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-47	320	n/a	9/23/2020	229	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-48	320	n/a	9/23/2020	575	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-5	320	n/a	9/22/2020	716	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-8	320	n/a	9/23/2020	333	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-9	320	n/a	9/22/2020	461	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Trend Test Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWC-10	-0.7875	-41	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.05321	44	34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.105	-39	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.04907	40	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.3228	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.7622	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.5082	38	34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-47	-0.02874	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.07167	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.5023	-46	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-9	-0.2724	-55	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-5.213	-40	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.9849	-35	-34	Yes	11	9.091	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	6.164	47	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.938	54	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-2	-19.32	-62	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-7.742	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	1.372	43	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.8116	46	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-2.92	-44	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	3.214	62	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-1.347	-48	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.105	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.9328	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.348	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.859	-54	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-48	-2.563	-66	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.7327	40	34	Yes	11	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-19	0.07026	68	48	Yes	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-9	-0.02468	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	-0.3438	-40	-38	Yes	12	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-2.262	-49	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	17.35	39	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-76.21	-58	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-20	-54.31	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-72.08	-58	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-57.99	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-81.75	-49	-34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-53 (bg)	-26.46	-41	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-11	40.18	45	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-20	-67.11	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-4	117.2	45	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-48	-65.67	-56	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-5	47.26	37	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-8	-92.7	-49	-34	Yes	11	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWA-53 (bg)	-0.0003249	-5	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-70A (bg)	0	1	38	No	12	50	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-71 (bg)	-0.00009656	-1	-34	No	11	18.18	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-10	-0.7875	-41	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.05321	44	34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.012	-38	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.105	-39	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-15	0.03879	20	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.04907	40	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-19	-0.2025	-27	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.3228	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.7622	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-21	0.5429	26	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-22	0.1245	13	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-23	0.1754	25	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.5082	38	34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-42	-0.0129	-15	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-47	-0.02874	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.07167	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-5	-0.2739	-14	-34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.5023	-46	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-9	-0.2724	-55	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-5.213	-40	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-70A (bg)	-0.1112	-19	-38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.9849	-35	-34	Yes	11	9.091	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-10	-3.185	-13	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	6.164	47	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-12	-9.372	-30	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.938	54	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-2	-19.32	-62	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-20	-3.238	-18	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	3.106	38	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-22	0.5145	12	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-23	1.123	22	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-4	25.63	33	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-42	-0.5495	-12	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-7.742	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	10.45	33	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-9	-0.4432	0	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-53 (bg)	-0.2527	-40	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-70A (bg)	-0.08248	-13	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-71 (bg)	-0.07123	-11	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-10	-0.4055	-14	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	1.372	43	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-12	-0.6308	-34	-34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-13	-0.4371	-7	-34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.8116	46	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-17	1.012	36	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-2.92	-44	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	3.214	62	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-1.347	-48	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.105	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.9328	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.348	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.859	-54	-38	Yes	12	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	DGWC-48	-2.563	-66	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.7327	40	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-8	0	-1	-34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-9	0.9794	31	38	No	12	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-53 (bg)	0	-1	-53	No	15	13.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-70A (bg)	0.01815	38	43	No	13	61.54	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-71 (bg)	0	26	48	No	14	78.57	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-10	0	-7	-48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-9	0.03493	11	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-53 (bg)	0.031	4	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-70A (bg)	0.004574	2	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-71 (bg)	0.06107	33	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-10	0.05117	18	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-17	-0.005267	-14	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-19	0.07026	68	48	Yes	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-20	-0.02415	-38	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-47	-0.2068	-37	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-48	-0.02253	-17	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-5	0.1155	48	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-9	-0.02468	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-53 (bg)	-2.258	-20	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	-0.3438	-40	-38	Yes	12	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-2.262	-49	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-10	-46.42	-33	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-11	21.85	33	34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-12	-43.07	-35	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-13	-3.786	-17	-34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-14	-0.653	-16	-34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-9.472	-37	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-17	1.086	3	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	17.35	39	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-76.21	-58	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-20	-54.31	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-21	-4.361	-20	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-22	0.2633	1	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-23	0	-4	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-4	66.54	29	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-42	-10.69	-20	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-72.08	-58	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-57.99	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-5	12.32	11	34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-81.75	-49	-34	Yes	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-9	4.346	6	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-53 (bg)	-26.46	-41	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-70A (bg)	0	0	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-71 (bg)	-5.475	-26	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-11	40.18	45	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-12	-52.08	-33	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-17	16.77	27	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-19	34.48	38	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-20	-67.11	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-21	7.717	26	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-22	-4.029	-12	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-23	1.483	4	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-4	117.2	45	38	Yes	12	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:41 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	DGWC-42	0.1608	1	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-48	-65.67	-56	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-5	47.26	37	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-8	-92.7	-49	-34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-9	17.89	18	38	No	12	0	n/a	n/a	0.01	NP

Tolerance Limit Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/18/2020, 10:01 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.0030	38	n/a	n/a	81.58	n/a	n/a	0.1424	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0050	38	n/a	n/a	78.95	n/a	n/a	0.1424	NP Inter(NDs)
Barium (mg/L)	n/a	0.19	38	n/a	n/a	0	n/a	n/a	0.1424	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0030	38	n/a	n/a	73.68	n/a	n/a	0.1424	NP Inter(normality)
Cadmium (mg/L)	n/a	0.0025	38	n/a	n/a	92.11	n/a	n/a	0.1424	NP Inter(NDs)
Chromium (mg/L)	n/a	0.010	37	n/a	n/a	54.05	n/a	n/a	0.1499	NP Inter(normality)
Cobalt (mg/L)	n/a	0.032	38	n/a	n/a	31.58	n/a	n/a	0.1424	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	5.9	40	1.062	0.3514	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	n/a	0.42	42	n/a	n/a	50	n/a	n/a	0.116	NP Inter(normality)
Lead (mg/L)	n/a	0.0050	38	n/a	n/a	76.32	n/a	n/a	0.1424	NP Inter(NDs)
Lithium (mg/L)	n/a	0.030	38	n/a	n/a	36.84	n/a	n/a	0.1424	NP Inter(normality)
Mercury (mg/L)	n/a	0.00050	38	n/a	n/a	89.47	n/a	n/a	0.1424	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.041	38	n/a	n/a	63.16	n/a	n/a	0.1424	NP Inter(normality)
Selenium (mg/L)	n/a	0.010	38	n/a	n/a	100	n/a	n/a	0.1424	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0010	38	n/a	n/a	94.74	n/a	n/a	0.1424	NP Inter(NDs)

MCDONOUGH AP-1 GWPS TABLE					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.19	2	2
Beryllium, Total (mg/L)	0.004		0.003	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.032	0.032	0.032
Combined Radium, Total (pCi/L)	5		5.92	5.92	5.92
Fluoride, Total (mg/L)	4		0.42	4	4
Lead, Total (mg/L)	n/a	0.015	0.005	0.015	0.005
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0005	0.002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.041	0.1	0.041
Selenium, Total (mg/L)	0.05		0.01	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule Specified levels.*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

Federal Confidence Interval Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 3:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03066	0.01584	0.01	Yes 13	0.02325	0.009966	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009456	0.005244	0.004	Yes 12	0.00735	0.002684	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01338	0.009172	0.004	Yes 13	0.01128	0.002831	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009497	0.007719	0.004	Yes 13	0.008608	0.001195	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.009007	0.00606	0.004	Yes 12	0.007533	0.001878	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.006036	0.004933	0.004	Yes 13	0.005485	0.0007414	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.194	0.1479	0.032	Yes 12	0.1671	0.03784	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05328	0.04876	0.032	Yes 13	0.05102	0.003039	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6453	0.4536	0.032	Yes 13	0.5495	0.1289	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.4062	0.2647	0.032	Yes 13	0.3355	0.09515	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5235	0.415	0.032	Yes 13	0.4692	0.07295	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09482	0.04891	0.032	Yes 12	0.07187	0.02925	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2018	0.136	0.032	Yes 13	0.1689	0.04419	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.0771	0.06002	0.04	Yes 13	0.06856	0.01149	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.13	0.1093	0.04	Yes 13	0.1197	0.01391	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1415	0.05002	0.05	Yes 13	0.09574	0.06149	0	None	No	0.01	Param.

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Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 3:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No 14	0.002807	0.0007216	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No 13	0.002854	0.000527	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No 13	0.00262	0.0009312	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No 13	0.002804	0.0007072	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No 13	0.002797	0.0007322	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No 13	0.002815	0.0006656	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No 13	0.002869	0.0004715	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No 13	0.002823	0.0006379	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No 12	0.002615	0.0009004	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No 13	0.002862	0.0004992	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.00039	0.006	No 13	0.002799	0.0007239	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.00032	0.006	No 12	0.002777	0.0007736	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.00722	0.00308	0.01	No 12	0.00515	0.002638	8.333	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No 14	0.004374	0.001592	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No 13	0.004645	0.001279	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.00064	0.01	No 13	0.004042	0.001828	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.00073	0.01	No 13	0.003148	0.00209	53.85	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-19	0.005	0.00049	0.01	No 13	0.002365	0.001645	23.08	None	No	0.01	NP (Cohens/xfm)
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No 13	0.004499	0.001261	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01699	0.006683	0.01	No 13	0.01184	0.006934	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No 13	0.004692	0.001109	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0005	0.01	No 12	0.0039	0.001991	75	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No 13	0.004369	0.001542	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.003855	0.001418	0.01	No 13	0.002523	0.001439	15.38	Cohen's	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.00079	0.01	No 13	0.00293	0.002018	46.15	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-5	0.0203	0.0032	0.01	No 12	0.009483	0.01044	16.67	None	No	0.01	NP (Cohens/xfm)
Arsenic (mg/L)	DGWC-8	0.005	0.001	0.01	No 12	0.003472	0.001906	58.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-9	0.03066	0.01584	0.01	Yes 13	0.02325	0.009966	7.692	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.03055	0.02357	2	No 12	0.02706	0.004448	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06805	0.05751	2	No 12	0.06278	0.006717	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03036	0.02319	2	No 14	0.02691	0.005363	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03355	0.02707	2	No 12	0.02917	0.007981	8.333	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06272	0.05738	2	No 13	0.06005	0.003589	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05171	0.04502	2	No 13	0.04836	0.0045	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05844	0.04436	2	No 13	0.0514	0.009465	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02536	0.02124	2	No 13	0.0233	0.002771	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02269	0.02115	2	No 13	0.02192	0.001038	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01488	0.008707	2	No 13	0.01179	0.004149	7.692	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.0252	2	No 13	0.02634	0.001198	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03853	0.03293	2	No 13	0.03573	0.003765	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02432	0.01814	2	No 13	0.02131	0.004373	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.0363	0.03	2	No 12	0.03397	0.002586	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-42	0.02101	0.01682	2	No 13	0.01895	0.002948	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01952	0.01539	2	No 13	0.01745	0.00278	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0145	0.0129	2	No 13	0.0137	0.001075	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01858	0.01676	2	No 11	0.01767	0.001092	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03968	0.02782	2	No 12	0.03375	0.007562	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01485	2	No 13	0.01554	0.0009287	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009456	0.005244	0.004	Yes 12	0.00735	0.002684	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00012	0.004	No 12	0.001807	0.001475	58.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00017	0.004	No 14	0.0006153	0.001014	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No 12	0.002268	0.001324	75	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No 13	0.00256	0.001075	84.62	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00071	0.0005	0.004	No 13	0.0009623	0.0009065	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.003	0.0017	0.004	No 13	0.002077	0.0004304	15.38	None	No	0.01	NP (normality)

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-20	0.0063	0.0026	0.004	No 13	0.003808	0.001906	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-21	0.003	0.0001	0.004	No 13	0.0005969	0.001067	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.003	0.00014	0.004	No 13	0.0006054	0.001063	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.00077	0.00038	0.004	No 13	0.0008285	0.0009694	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.003	0.0001	0.004	No 12	0.0006617	0.001093	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002873	0.002173	0.004	No 13	0.002523	0.0004711	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01338	0.009172	0.004	Yes 13	0.01128	0.002831	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009497	0.007719	0.004	Yes 13	0.008608	0.001195	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.009007	0.00606	0.004	Yes 12	0.007533	0.001878	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003446	0.001804	0.004	No 12	0.002625	0.001046	8.333	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.006036	0.004933	0.004	Yes 13	0.005485	0.0007414	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001267	0.0008381	0.005	No 12	0.001053	0.0002733	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0025	0.00016	0.005	No 12	0.002107	0.0009187	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.001	0.00025	0.005	No 14	0.0006893	0.00079	21.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-13	0.0025	0.0002	0.005	No 12	0.002107	0.000919	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.0025	0.00012	0.005	No 13	0.001648	0.001145	69.23	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-17	0.00033	0.00024	0.005	No 13	0.0006169	0.0008366	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.001	0.00033	0.005	No 13	0.0005838	0.0006022	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.001	0.00013	0.005	No 13	0.0006538	0.0008526	23.08	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002229	0.001771	0.005	No 13	0.002	0.0003082	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.001	0.00054	0.005	No 13	0.0008085	0.0005286	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-22	0.001	0.0004	0.005	No 13	0.0007354	0.0005646	15.38	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-23	0.001	0.0002	0.005	No 13	0.00047	0.0006466	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.001	0.0005	0.005	No 12	0.00086	0.0005345	16.67	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-42	0.0024	0.00037	0.005	No 13	0.001042	0.0007112	15.38	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-47	0.002295	0.001198	0.005	No 13	0.001746	0.0007378	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.004529	0.002389	0.005	No 13	0.0036	0.001801	0	None	In(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.001	0.0002	0.005	No 12	0.0007592	0.000611	16.67	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-8	0.002601	0.002016	0.005	No 12	0.002308	0.0003728	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.001	0.0005	0.005	No 13	0.0007531	0.0005442	15.38	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-10	0.01	0.0007	0.1	No 12	0.003883	0.004519	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.01	0.0006	0.1	No 12	0.006866	0.004629	66.67	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-12	0.01	0.00094	0.1	No 14	0.009353	0.002421	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.01	0.00066	0.1	No 12	0.006907	0.004568	66.67	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-15	0.01	0.0005	0.1	No 13	0.007411	0.004182	69.23	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No 13	0.003862	0.00275	15.38	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.01	0.0023	0.1	No 13	0.0043	0.003261	23.08	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.01	0.00046	0.1	No 13	0.006348	0.004808	61.54	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-20	0.01	0.0015	0.1	No 13	0.004985	0.004154	38.46	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.01	0.00048	0.1	No 13	0.006381	0.004767	61.54	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-22	0.01	0.0012	0.1	No 13	0.009323	0.002441	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.01	0.00041	0.1	No 13	0.00357	0.004467	30.77	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.01	0.0005	0.1	No 12	0.009208	0.002742	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.01	0.00042	0.1	No 13	0.005095	0.004745	46.15	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-47	0.01	0.0007	0.1	No 13	0.009285	0.002579	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.01	0.0007	0.1	No 13	0.008546	0.003549	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.01	0.00045	0.1	No 12	0.009204	0.002757	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.01	0.00061	0.1	No 12	0.006331	0.004571	58.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-9	0.01	0.00051	0.1	No 13	0.006792	0.004421	61.54	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-10	0.194	0.1479	0.032	Yes 12	0.1671	0.03784	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No 12	0.001606	0.0009402	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.0079	0.0021	0.032	No 14	0.006143	0.007268	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0004	0.032	No 12	0.001982	0.0009381	75	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-15	0.0042	0.0018	0.032	No 13	0.003992	0.00635	7.692	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02807	0.02097	0.032	No 13	0.02399	0.006439	7.692	None	x^2	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
Cobalt (mg/L)	DGWC-19	0.05328	0.04876	0.032	Yes 13	0.05102	0.003039	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.02786	0.01119	0.032	No 13	0.01952	0.01121	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6453	0.4536	0.032	Yes 13	0.5495	0.1289	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.01	0.005	0.032	No 13	0.008538	0.002294	15.38	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-22	0.0106	0.005	0.032	No 13	0.008662	0.002396	15.38	None	No	0.01	NP (Cohens/xfrm)
Cobalt (mg/L)	DGWC-23	0.005	0.00036	0.032	No 13	0.002044	0.001333	69.23	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.0025	0.0014	0.032	No 12	0.002033	0.000982	16.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04874	0.01994	0.032	No 13	0.03434	0.01937	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.4062	0.2647	0.032	Yes 13	0.3355	0.09515	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5235	0.415	0.032	Yes 13	0.4692	0.07295	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.03614	0.02048	0.032	No 12	0.02902	0.01169	0	None	In(x)	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09482	0.04891	0.032	Yes 12	0.07187	0.02925	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2018	0.136	0.032	Yes 13	0.1689	0.04419	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.533	1.067	5.92	No 13	1.3	0.3132	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.324	0.6257	5.92	No 13	0.975	0.4697	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.119	0.3122	5.92	No 13	0.7574	0.6581	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.536	1.01	5.92	No 13	1.273	0.354	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.156	0.6832	5.92	No 13	0.9195	0.3179	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.736	0.5423	5.92	No 13	1.196	0.9184	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.101	0.5388	5.92	No 13	0.8199	0.3781	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.108	0.5209	5.92	No 13	0.8143	0.3946	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.451	0.8198	5.92	No 13	1.135	0.4243	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.567	0.8478	5.92	No 13	1.207	0.4835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.2	0.6287	5.92	No 13	0.9143	0.3841	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.462	0.779	5.92	No 13	1.121	0.4594	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.482	0.6925	5.92	No 13	1.087	0.5307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.788	1.182	5.92	No 13	1.485	0.4079	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.192	0.6811	5.92	No 13	0.9368	0.3438	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	3.046	1.811	5.92	No 13	2.428	0.8307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.561	1.567	5.92	No 13	2.064	0.6687	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.955	1.022	5.92	No 13	1.489	0.6279	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.8387	0.4284	5.92	No 13	0.6335	0.2759	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.469	0.8959	5.92	No 13	1.182	0.3851	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.819	1.276	4	No 14	1.548	0.3832	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.04	4	No 13	0.07738	0.02685	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-12	0.3	0.071	4	No 14	0.1683	0.153	42.86	None	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	DGWC-13	0.2371	0.08721	4	No 13	0.1683	0.1136	7.692	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.052	4	No 14	0.08386	0.02776	64.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-15	0.11	0.079	4	No 14	0.1061	0.04679	57.14	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-17	0.3341	0.1109	4	No 14	0.2225	0.1575	14.29	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-19	0.5725	0.1743	4	No 14	0.3979	0.327	7.143	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.28	0.052	4	No 14	0.1524	0.1678	35.71	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	0.9283	0.3788	4	No 14	0.6536	0.3879	7.143	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.14	0.07	4	No 14	0.108	0.07152	57.14	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-22	0.13	0.09	4	No 14	0.1211	0.06974	42.86	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-23	0.2749	0.09828	4	No 14	0.2011	0.1607	7.143	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.082	4	No 14	0.1416	0.1901	64.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No 14	0.09143	0.02316	85.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	1.228	0.5388	4	No 14	0.8836	0.4867	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	1.27	0.6254	4	No 14	0.9479	0.4552	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-5	0.9221	0.2741	4	No 13	0.63	0.4591	7.692	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-8	0.4944	0.1003	4	No 13	0.3211	0.2329	15.38	Cohen's	No	0.01	Param.
Fluoride (mg/L)	DGWC-9	1.317	0.9573	4	No 14	1.137	0.254	0	None	No	0.01	Param.
Lead (mg/L)	DGWC-10	0.005	0.00011	0.015	No 12	0.002974	0.002504	58.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-11	0.005	0.000076	0.015	No 12	0.002958	0.002523	58.33	None	No	0.01	NP (normality)

Federal Confidence Interval Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 3:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	DGWC-12	0.005	0.00011	0.015	No 14	0.004301	0.001778	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.005	0.0002	0.015	No 12	0.004191	0.001888	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.005	0.000096	0.015	No 13	0.004242	0.001851	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.005	0.000082	0.015	No 13	0.002826	0.002461	53.85	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-17	0.005	0.000079	0.015	No 13	0.002742	0.002539	53.85	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-19	0.005	0.00007	0.015	No 13	0.003503	0.002337	69.23	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-2	0.005	0.000064	0.015	No 13	0.002353	0.00255	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.005	0.00013	0.015	No 13	0.003192	0.002385	61.54	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-21	0.005	0.0001	0.015	No 13	0.002405	0.002502	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-23	0.005	0.000066	0.015	No 13	0.00462	0.001368	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.005	0.0001	0.015	No 12	0.003779	0.002209	75	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-42	0.0016	0.0002	0.015	No 13	0.001152	0.00175	15.38	None	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	DGWC-47	0.005	0.0005	0.015	No 13	0.001732	0.001875	23.08	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0035	0.00092	0.015	No 13	0.002067	0.001499	15.38	None	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	DGWC-5	0.005	0.000051	0.015	No 12	0.001941	0.00235	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.005	0.0001	0.015	No 12	0.002626	0.002485	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.005	0.00017	0.015	No 13	0.004255	0.001818	84.62	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-10	0.015	0.002	0.04	No 12	0.005458	0.004637	16.67	None	No	0.01	NP (Cohens/xfrm)
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No 12	0.003333	0.003684	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.00097	0.04	No 14	0.01001	0.006944	64.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-13	0.015	0.0028	0.04	No 12	0.005117	0.004624	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.008	0.0032	0.04	No 13	0.0048	0.003316	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0059	0.04	No 12	0.006392	0.0008229	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No 13	0.009647	0.007049	61.54	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-19	0.015	0.0031	0.04	No 13	0.004108	0.00328	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.07156	0.02739	0.04	No 13	0.05299	0.03076	7.692	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-20	0.015	0.0019	0.04	No 13	0.006369	0.005794	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.04	No 13	0.006692	0.002518	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0047	0.0036	0.04	No 13	0.004992	0.003032	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.0162	0.0036	0.04	No 13	0.01175	0.01975	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-4	0.0035	0.0024	0.04	No 12	0.003833	0.003537	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01247	0.01025	0.04	No 13	0.01136	0.001495	7.692	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.0771	0.06002	0.04	Yes 13	0.06856	0.01149	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.13	0.1093	0.04	Yes 13	0.1197	0.01391	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.008526	0.003793	0.04	No 12	0.006275	0.00332	8.333	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0075	0.0045	0.04	No 12	0.006375	0.002911	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02965	0.02256	0.04	No 13	0.02611	0.004768	7.692	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0005	0.00008	0.002	No 12	0.0003601	0.0002067	66.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-11	0.0005	0.00006	0.002	No 12	0.0003908	0.0001976	75	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-12	0.0005	0.00006	0.002	No 14	0.000319	0.000218	57.14	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-13	0.0005	0.00009	0.002	No 12	0.00043	0.0001635	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0005	0.00006	0.002	No 13	0.0003992	0.0001916	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0005	0.00006	0.002	No 13	0.0004662	0.000122	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0005	0.00006	0.002	No 13	0.0002785	0.0002154	46.15	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0005	0.00005	0.002	No 13	0.0003985	0.0001933	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.00008	0.002	No 13	0.0004133	0.0001952	69.23	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-20	0.0005	0.00008	0.002	No 13	0.0004354	0.0001577	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0005	0.00006	0.002	No 13	0.0003362	0.0002163	61.54	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-22	0.0005	0.000055	0.002	No 13	0.0004004	0.0001896	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0005	0.00014	0.002	No 13	0.0002723	0.0001623	30.77	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-4	0.00059	0.000082	0.002	No 12	0.0004377	0.0001686	75	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-42	0.0005	0.00004	0.002	No 13	0.0004646	0.0001276	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0005	0.00006	0.002	No 13	0.0004662	0.000122	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0005	0.00009	0.002	No 12	0.0002417	0.0001701	16.67	None	No	0.01	NP (Cohens/xfrm)
Mercury (mg/L)	DGWC-8	0.0005	0.00006	0.002	No 12	0.0002909	0.0002192	50	None	No	0.01	NP (normality)

Federal Confidence Interval Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 3:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	DGWC-9	0.0005	0.00005	0.002	No 13	0.0003548	0.0001878	53.85	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02834	0.01374	0.1	No 12	0.02104	0.009302	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.005	0.0018	0.1	No 13	0.003231	0.001752	46.15	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01155	0.007262	0.1	No 13	0.009408	0.002886	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006873	0.004594	0.1	No 12	0.005733	0.001452	8.333	None	No	0.01	Param.
Selenium (mg/L)	DGWC-10	0.05502	0.01853	0.05	No 12	0.03678	0.02325	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.01	0.0017	0.05	No 14	0.005921	0.004238	50	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-13	0.01	0.0015	0.05	No 12	0.004858	0.003462	25	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	DGWC-14	0.01	0.0016	0.05	No 13	0.007438	0.004001	69.23	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No 13	0.009369	0.002274	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.01	0.0072	0.05	No 13	0.008846	0.002183	15.38	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-19	0.009886	0.005688	0.05	No 13	0.007538	0.002479	15.38	Cohen's	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.01	0.0046	0.05	No 13	0.007777	0.002565	53.85	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06857	0.03146	0.05	No 13	0.05002	0.02496	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.01	0.0017	0.05	No 13	0.009362	0.002302	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.01	0.0014	0.05	No 12	0.009283	0.002483	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01444	0.006265	0.05	No 13	0.01035	0.005499	15.38	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.009889	0.004257	0.05	No 13	0.006738	0.003327	15.38	Cohen's	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.05512	0.01002	0.05	No 12	0.03657	0.0445	8.333	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.01	0.0018	0.05	No 12	0.006183	0.003635	41.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-9	0.1415	0.05002	0.05	Yes 13	0.09574	0.06149	0	None	No	0.01	Param.
Thallium (mg/L)	DGWC-10	0.001	0.00036	0.002	No 12	0.000515	0.000237	16.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000089	0.002	No 14	0.0005476	0.0004696	50	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-17	0.001	0.00015	0.002	No 13	0.0003692	0.0003601	23.08	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.0006	0.00049	0.002	No 13	0.0005415	0.0001493	7.692	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.0016	0.00055	0.002	No 13	0.0009392	0.0005086	30.77	None	No	0.01	NP (Cohens/xfrm)
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No 13	0.0006411	0.0004726	61.54	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No 12	0.0009228	0.0002676	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No 13	0.0007184	0.0004397	69.23	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No 13	0.00036	0.0002876	15.38	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.000078	0.002	No 13	0.0006466	0.0004653	61.54	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-5	0.001	0.000078	0.002	No 12	0.0007783	0.0004023	75	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-8	0.001	0.0002	0.002	No 12	0.0004217	0.0003532	25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.0009925	0.0005252	0.002	No 13	0.0007031	0.0002337	30.77	Cohen's	No	0.01	Param.

State Confidence Interval Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03066	0.01584	0.01	Yes 13	0.02325	0.009966	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009456	0.005244	0.004	Yes 12	0.00735	0.002684	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01338	0.009172	0.004	Yes 13	0.01128	0.002831	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009497	0.007719	0.004	Yes 13	0.008608	0.001195	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.009007	0.00606	0.004	Yes 12	0.007533	0.001878	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.006036	0.004933	0.004	Yes 13	0.005485	0.0007414	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.194	0.1479	0.032	Yes 12	0.1671	0.03784	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05328	0.04876	0.032	Yes 13	0.05102	0.003039	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6453	0.4536	0.032	Yes 13	0.5495	0.1289	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.4062	0.2647	0.032	Yes 13	0.3355	0.09515	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5235	0.415	0.032	Yes 13	0.4692	0.07295	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09482	0.04891	0.032	Yes 12	0.07187	0.02925	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2018	0.136	0.032	Yes 13	0.1689	0.04419	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.0771	0.06002	0.03	Yes 13	0.06856	0.01149	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.13	0.1093	0.03	Yes 13	0.1197	0.01391	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1415	0.05002	0.05	Yes 13	0.09574	0.06149	0	None	No	0.01	Param.

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Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No 14	0.002807	0.0007216	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No 13	0.002854	0.000527	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No 13	0.00262	0.0009312	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No 13	0.002804	0.0007072	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No 13	0.002797	0.0007322	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No 13	0.002815	0.0006656	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No 13	0.002869	0.0004715	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No 13	0.002823	0.0006379	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No 12	0.002615	0.0009004	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No 13	0.002862	0.0004992	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.00039	0.006	No 13	0.002799	0.0007239	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.00032	0.006	No 12	0.002777	0.0007736	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.00722	0.00308	0.01	No 12	0.00515	0.002638	8.333	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No 14	0.004374	0.001592	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No 13	0.004645	0.001279	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.00064	0.01	No 13	0.004042	0.001828	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.00073	0.01	No 13	0.003148	0.00209	53.85	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-19	0.005	0.00049	0.01	No 13	0.002365	0.001645	23.08	None	No	0.01	NP (Cohens/xfrm)
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No 13	0.004499	0.001261	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01699	0.006683	0.01	No 13	0.01184	0.006934	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No 13	0.004692	0.001109	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0005	0.01	No 12	0.0039	0.001991	75	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No 13	0.004369	0.001542	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.003855	0.001418	0.01	No 13	0.002523	0.001439	15.38	Cohen's	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.00079	0.01	No 13	0.00293	0.002018	46.15	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-5	0.0203	0.0032	0.01	No 12	0.009483	0.01044	16.67	None	No	0.01	NP (Cohens/xfrm)
Arsenic (mg/L)	DGWC-8	0.005	0.001	0.01	No 12	0.003472	0.001906	58.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-9	0.03066	0.01584	0.01	Yes 13	0.02325	0.009966	7.692	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.03055	0.02357	2	No 12	0.02706	0.004448	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06805	0.05751	2	No 12	0.06278	0.006717	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03036	0.02319	2	No 14	0.02691	0.005363	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03355	0.02707	2	No 12	0.02917	0.007981	8.333	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06272	0.05738	2	No 13	0.06005	0.003589	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05171	0.04502	2	No 13	0.04836	0.0045	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05844	0.04436	2	No 13	0.0514	0.009465	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02536	0.02124	2	No 13	0.0233	0.002771	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02269	0.02115	2	No 13	0.02192	0.001038	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01488	0.008707	2	No 13	0.01179	0.004149	7.692	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.0252	2	No 13	0.02634	0.001198	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03853	0.03293	2	No 13	0.03573	0.003765	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02432	0.01814	2	No 13	0.02131	0.004373	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.0363	0.03	2	No 12	0.03397	0.002586	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-42	0.02101	0.01682	2	No 13	0.01895	0.002948	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01952	0.01539	2	No 13	0.01745	0.00278	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0145	0.0129	2	No 13	0.0137	0.001075	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01858	0.01676	2	No 11	0.01767	0.001092	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03968	0.02782	2	No 12	0.03375	0.007562	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01485	2	No 13	0.01554	0.0009287	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009456	0.005244	0.004	Yes 12	0.00735	0.002684	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00012	0.004	No 12	0.001807	0.001475	58.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00017	0.004	No 14	0.0006153	0.001014	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No 12	0.002268	0.001324	75	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No 13	0.00256	0.001075	84.62	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00071	0.0005	0.004	No 13	0.0009623	0.0009065	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.003	0.0017	0.004	No 13	0.002077	0.0004304	15.38	None	No	0.01	NP (normality)

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-20	0.0063	0.0026	0.004	No 13	0.003808	0.001906	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-21	0.003	0.0001	0.004	No 13	0.0005969	0.001067	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.003	0.00014	0.004	No 13	0.0006054	0.001063	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.00077	0.00038	0.004	No 13	0.0008285	0.0009694	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.003	0.0001	0.004	No 12	0.0006617	0.001093	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002873	0.002173	0.004	No 13	0.002523	0.0004711	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01338	0.009172	0.004	Yes 13	0.01128	0.002831	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009497	0.007719	0.004	Yes 13	0.008608	0.001195	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.009007	0.00606	0.004	Yes 12	0.007533	0.001878	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003446	0.001804	0.004	No 12	0.002625	0.001046	8.333	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.006036	0.004933	0.004	Yes 13	0.005485	0.0007414	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001267	0.0008381	0.005	No 12	0.001053	0.0002733	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0025	0.00016	0.005	No 12	0.002107	0.0009187	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.001	0.00025	0.005	No 14	0.0006893	0.00079	21.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-13	0.0025	0.0002	0.005	No 12	0.002107	0.000919	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.0025	0.00012	0.005	No 13	0.001648	0.001145	69.23	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-17	0.00033	0.00024	0.005	No 13	0.0006169	0.0008366	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.001	0.00033	0.005	No 13	0.0005838	0.0006022	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.001	0.00013	0.005	No 13	0.0006538	0.0008526	23.08	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002229	0.001771	0.005	No 13	0.002	0.0003082	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.001	0.00054	0.005	No 13	0.0008085	0.0005286	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-22	0.001	0.0004	0.005	No 13	0.0007354	0.0005646	15.38	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-23	0.001	0.0002	0.005	No 13	0.00047	0.0006466	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.001	0.0005	0.005	No 12	0.00086	0.0005345	16.67	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-42	0.0024	0.00037	0.005	No 13	0.001042	0.0007112	15.38	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-47	0.002295	0.001198	0.005	No 13	0.001746	0.0007378	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.004529	0.002389	0.005	No 13	0.0036	0.001801	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.001	0.0002	0.005	No 12	0.0007592	0.000611	16.67	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-8	0.002601	0.002016	0.005	No 12	0.002308	0.0003728	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.001	0.0005	0.005	No 13	0.0007531	0.0005442	15.38	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-10	0.01	0.0007	0.1	No 12	0.003883	0.004519	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.01	0.0006	0.1	No 12	0.006866	0.004629	66.67	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-12	0.01	0.00094	0.1	No 14	0.009353	0.002421	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.01	0.00066	0.1	No 12	0.006907	0.004568	66.67	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-15	0.01	0.0005	0.1	No 13	0.007411	0.004182	69.23	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No 13	0.003862	0.00275	15.38	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.01	0.0023	0.1	No 13	0.0043	0.003261	23.08	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.01	0.00046	0.1	No 13	0.006348	0.004808	61.54	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-20	0.01	0.0015	0.1	No 13	0.004985	0.004154	38.46	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.01	0.00048	0.1	No 13	0.006381	0.004767	61.54	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-22	0.01	0.0012	0.1	No 13	0.009323	0.002441	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.01	0.00041	0.1	No 13	0.00357	0.004467	30.77	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.01	0.0005	0.1	No 12	0.009208	0.002742	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.01	0.00042	0.1	No 13	0.005095	0.004745	46.15	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-47	0.01	0.0007	0.1	No 13	0.009285	0.002579	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.01	0.0007	0.1	No 13	0.008546	0.003549	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.01	0.00045	0.1	No 12	0.009204	0.002757	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.01	0.00061	0.1	No 12	0.006331	0.004571	58.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-9	0.01	0.00051	0.1	No 13	0.006792	0.004421	61.54	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-10	0.194	0.1479	0.032	Yes 12	0.1671	0.03784	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No 12	0.001606	0.0009402	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.0079	0.0021	0.032	No 14	0.006143	0.007268	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0004	0.032	No 12	0.001982	0.0009381	75	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-15	0.0042	0.0018	0.032	No 13	0.003992	0.00635	7.692	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02807	0.02097	0.032	No 13	0.02399	0.006439	7.692	None	x^2	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
Cobalt (mg/L)	DGWC-19	0.05328	0.04876	0.032	Yes 13	0.05102	0.003039	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.02786	0.01119	0.032	No 13	0.01952	0.01121	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6453	0.4536	0.032	Yes 13	0.5495	0.1289	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.01	0.005	0.032	No 13	0.008538	0.002294	15.38	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-22	0.0106	0.005	0.032	No 13	0.008662	0.002396	15.38	None	No	0.01	NP (Cohens/xfrm)
Cobalt (mg/L)	DGWC-23	0.005	0.00036	0.032	No 13	0.002044	0.001333	69.23	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.0025	0.0014	0.032	No 12	0.002033	0.000982	16.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04874	0.01994	0.032	No 13	0.03434	0.01937	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.4062	0.2647	0.032	Yes 13	0.3355	0.09515	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5235	0.415	0.032	Yes 13	0.4692	0.07295	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.03614	0.02048	0.032	No 12	0.02902	0.01169	0	None	In(x)	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09482	0.04891	0.032	Yes 12	0.07187	0.02925	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2018	0.136	0.032	Yes 13	0.1689	0.04419	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.533	1.067	5.92	No 13	1.3	0.3132	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.324	0.6257	5.92	No 13	0.975	0.4697	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.119	0.3122	5.92	No 13	0.7574	0.6581	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.536	1.01	5.92	No 13	1.273	0.354	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.156	0.6832	5.92	No 13	0.9195	0.3179	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.736	0.5423	5.92	No 13	1.196	0.9184	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.101	0.5388	5.92	No 13	0.8199	0.3781	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.108	0.5209	5.92	No 13	0.8143	0.3946	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.451	0.8198	5.92	No 13	1.135	0.4243	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.567	0.8478	5.92	No 13	1.207	0.4835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.2	0.6287	5.92	No 13	0.9143	0.3841	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.462	0.779	5.92	No 13	1.121	0.4594	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.482	0.6925	5.92	No 13	1.087	0.5307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.788	1.182	5.92	No 13	1.485	0.4079	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.192	0.6811	5.92	No 13	0.9368	0.3438	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	3.046	1.811	5.92	No 13	2.428	0.8307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.561	1.567	5.92	No 13	2.064	0.6687	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.955	1.022	5.92	No 13	1.489	0.6279	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.8387	0.4284	5.92	No 13	0.6335	0.2759	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.469	0.8959	5.92	No 13	1.182	0.3851	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.819	1.276	4	No 14	1.548	0.3832	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.04	4	No 13	0.07738	0.02685	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-12	0.3	0.071	4	No 14	0.1683	0.153	42.86	None	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	DGWC-13	0.2371	0.08721	4	No 13	0.1683	0.1136	7.692	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.052	4	No 14	0.08386	0.02776	64.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-15	0.11	0.079	4	No 14	0.1061	0.04679	57.14	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-17	0.3341	0.1109	4	No 14	0.2225	0.1575	14.29	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-19	0.5725	0.1743	4	No 14	0.3979	0.327	7.143	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.28	0.052	4	No 14	0.1524	0.1678	35.71	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	0.9283	0.3788	4	No 14	0.6536	0.3879	7.143	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.14	0.07	4	No 14	0.108	0.07152	57.14	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-22	0.13	0.09	4	No 14	0.1211	0.06974	42.86	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-23	0.2749	0.09828	4	No 14	0.2011	0.1607	7.143	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.082	4	No 14	0.1416	0.1901	64.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No 14	0.09143	0.02316	85.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	1.228	0.5388	4	No 14	0.8836	0.4867	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	1.27	0.6254	4	No 14	0.9479	0.4552	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-5	0.9221	0.2741	4	No 13	0.63	0.4591	7.692	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-8	0.4944	0.1003	4	No 13	0.3211	0.2329	15.38	Cohen's	No	0.01	Param.
Fluoride (mg/L)	DGWC-9	1.317	0.9573	4	No 14	1.137	0.254	0	None	No	0.01	Param.
Lead (mg/L)	DGWC-10	0.005	0.00011	0.005	No 12	0.002974	0.002504	58.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-11	0.005	0.000076	0.005	No 12	0.002958	0.002523	58.33	None	No	0.01	NP (normality)

State Confidence Interval Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	DGWC-12	0.005	0.00011	0.005	No 14	0.004301	0.001778	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.005	0.0002	0.005	No 12	0.004191	0.001888	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.005	0.000096	0.005	No 13	0.004242	0.001851	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.005	0.000082	0.005	No 13	0.002826	0.002461	53.85	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-17	0.005	0.000079	0.005	No 13	0.002742	0.002539	53.85	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-19	0.005	0.00007	0.005	No 13	0.003503	0.002337	69.23	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-2	0.005	0.000064	0.005	No 13	0.002353	0.00255	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.005	0.00013	0.005	No 13	0.003192	0.002385	61.54	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-21	0.005	0.0001	0.005	No 13	0.002405	0.002502	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-23	0.005	0.000066	0.005	No 13	0.00462	0.001368	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.005	0.0001	0.005	No 12	0.003779	0.002209	75	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-42	0.0016	0.0002	0.005	No 13	0.001152	0.00175	15.38	None	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	DGWC-47	0.005	0.0005	0.005	No 13	0.001732	0.001875	23.08	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0035	0.00092	0.005	No 13	0.002067	0.001499	15.38	None	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	DGWC-5	0.005	0.000051	0.005	No 12	0.001941	0.00235	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.005	0.0001	0.005	No 12	0.002626	0.002485	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.005	0.00017	0.005	No 13	0.004255	0.001818	84.62	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-10	0.015	0.002	0.03	No 12	0.005458	0.004637	16.67	None	No	0.01	NP (Cohens/xfrm)
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.03	No 12	0.003333	0.003684	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.00097	0.03	No 14	0.01001	0.006944	64.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-13	0.015	0.0028	0.03	No 12	0.005117	0.004624	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.008	0.0032	0.03	No 13	0.0048	0.003316	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0059	0.03	No 12	0.006392	0.0008229	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.03	No 13	0.009647	0.007049	61.54	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-19	0.015	0.0031	0.03	No 13	0.004108	0.00328	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.07156	0.02739	0.03	No 13	0.05299	0.03076	7.692	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-20	0.015	0.0019	0.03	No 13	0.006369	0.005794	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.03	No 13	0.006692	0.002518	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0047	0.0036	0.03	No 13	0.004992	0.003032	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.0162	0.0036	0.03	No 13	0.01175	0.01975	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-4	0.0035	0.0024	0.03	No 12	0.003833	0.003537	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01247	0.01025	0.03	No 13	0.01136	0.001495	7.692	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.0771	0.06002	0.03	Yes 13	0.06856	0.01149	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.13	0.1093	0.03	Yes 13	0.1197	0.01391	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.008526	0.003793	0.03	No 12	0.006275	0.00332	8.333	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0075	0.0045	0.03	No 12	0.006375	0.002911	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02965	0.02256	0.03	No 13	0.02611	0.004768	7.692	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0005	0.00008	0.002	No 12	0.0003601	0.0002067	66.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-11	0.0005	0.00006	0.002	No 12	0.0003908	0.0001976	75	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-12	0.0005	0.00006	0.002	No 14	0.000319	0.000218	57.14	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-13	0.0005	0.00009	0.002	No 12	0.00043	0.0001635	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0005	0.00006	0.002	No 13	0.0003992	0.0001916	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0005	0.00006	0.002	No 13	0.0004662	0.000122	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0005	0.00006	0.002	No 13	0.0002785	0.0002154	46.15	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0005	0.00005	0.002	No 13	0.0003985	0.0001933	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.00008	0.002	No 13	0.0004133	0.0001952	69.23	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-20	0.0005	0.00008	0.002	No 13	0.0004354	0.0001577	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0005	0.00006	0.002	No 13	0.0003362	0.0002163	61.54	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-22	0.0005	0.000055	0.002	No 13	0.0004004	0.0001896	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0005	0.00014	0.002	No 13	0.0002723	0.0001623	30.77	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-4	0.00059	0.000082	0.002	No 12	0.0004377	0.0001686	75	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-42	0.0005	0.00004	0.002	No 13	0.0004646	0.0001276	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0005	0.00006	0.002	No 13	0.0004662	0.000122	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0005	0.00009	0.002	No 12	0.0002417	0.0001701	16.67	None	No	0.01	NP (Cohens/xfrm)
Mercury (mg/L)	DGWC-8	0.0005	0.00006	0.002	No 12	0.0002909	0.0002192	50	None	No	0.01	NP (normality)

State Confidence Interval Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	DGWC-9	0.0005	0.00005	0.002	No	13	0.0003548	0.0001878	53.85	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02834	0.01374	0.041	No	12	0.02104	0.009302	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.005	0.0018	0.041	No	13	0.003231	0.001752	46.15	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01155	0.007262	0.041	No	13	0.009408	0.002886	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006873	0.004594	0.041	No	12	0.005733	0.001452	8.333	None	No	0.01	Param.
Selenium (mg/L)	DGWC-10	0.05502	0.01853	0.05	No	12	0.03678	0.02325	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.01	0.0017	0.05	No	14	0.005921	0.004238	50	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-13	0.01	0.0015	0.05	No	12	0.004858	0.003462	25	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	DGWC-14	0.01	0.0016	0.05	No	13	0.007438	0.004001	69.23	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	13	0.009369	0.002274	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.01	0.0072	0.05	No	13	0.008846	0.002183	15.38	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-19	0.009886	0.005688	0.05	No	13	0.007538	0.002479	15.38	Cohen's	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.01	0.0046	0.05	No	13	0.007777	0.002565	53.85	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06857	0.03146	0.05	No	13	0.05002	0.02496	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.01	0.0017	0.05	No	13	0.009362	0.002302	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.01	0.0014	0.05	No	12	0.009283	0.002483	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01444	0.006265	0.05	No	13	0.01035	0.005499	15.38	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.009889	0.004257	0.05	No	13	0.006738	0.003327	15.38	Cohen's	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.05512	0.01002	0.05	No	12	0.03657	0.0445	8.333	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.01	0.0018	0.05	No	12	0.006183	0.003635	41.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-9	0.1415	0.05002	0.05	Yes	13	0.09574	0.06149	0	None	No	0.01	Param.
Thallium (mg/L)	DGWC-10	0.001	0.00036	0.002	No	12	0.000515	0.000237	16.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000089	0.002	No	14	0.0005476	0.0004696	50	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-17	0.001	0.00015	0.002	No	13	0.0003692	0.0003601	23.08	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.0006	0.00049	0.002	No	13	0.0005415	0.0001493	7.692	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.0016	0.00055	0.002	No	13	0.0009392	0.0005086	30.77	None	No	0.01	NP (Cohens/xfrm)
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	13	0.0006411	0.0004726	61.54	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	12	0.0009228	0.0002676	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	13	0.0007184	0.0004397	69.23	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	13	0.00036	0.0002876	15.38	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.000078	0.002	No	13	0.0006466	0.0004653	61.54	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-5	0.001	0.000078	0.002	No	12	0.0007783	0.0004023	75	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-8	0.001	0.0002	0.002	No	12	0.0004217	0.0003532	25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.0009925	0.0005252	0.002	No	13	0.0007031	0.0002337	30.77	Cohen's	No	0.01	Param.

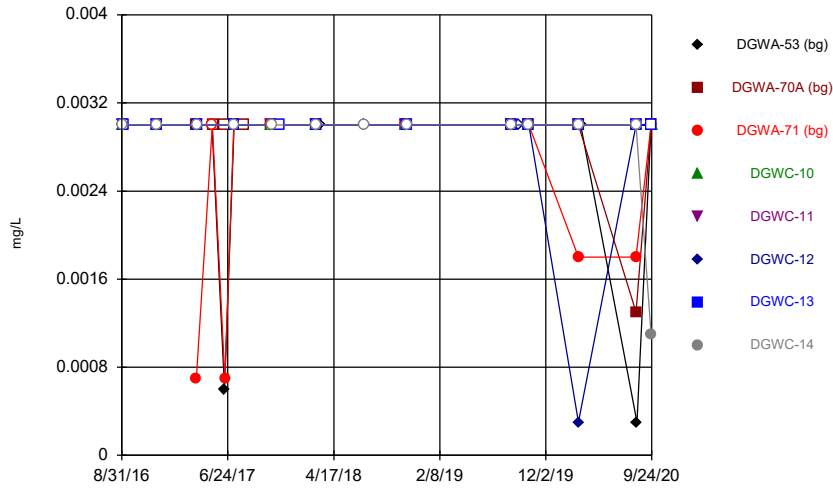
Outlier Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 3:30 PM

	DGWC-5 Barium (mg/L)	DGWC-10 Boron (mg/L)	DGWC-12 Chloride (mg/L)	DGWA-70A Chromium (mg/L)	DGWC-15 Lithium (mg/L)	DGWC-14 Sulfate (mg/L)	DGWA-53 TDS (mg/L)	DGWC-15 TDS (mg/L)
8/31/2016	0.0266 (o)							
12/7/2016		20 (o)						
3/29/2017	4.3 (o)				81 (o)			
7/12/2017							490 (o)	
10/24/2017						671 (o)		
11/6/2018	2.1 (o)							
11/7/2018				<0.05 (o)				
10/15/2019			0.034 (O)					

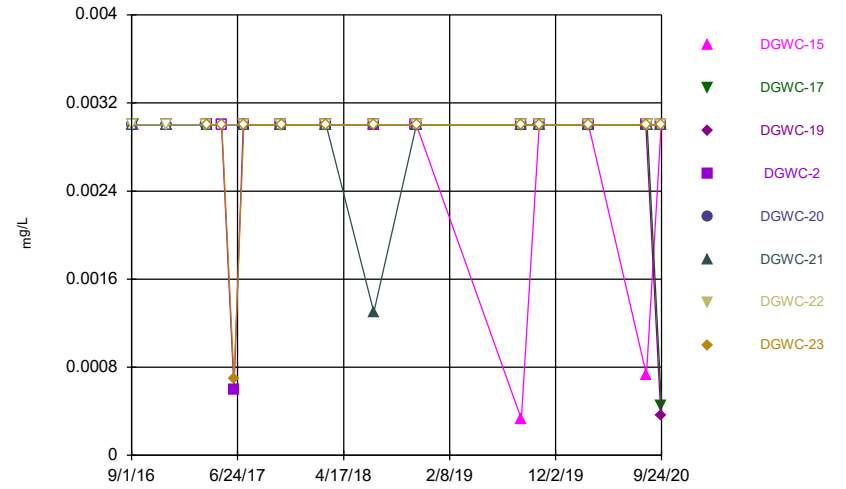
FIGURE A.

Time Series



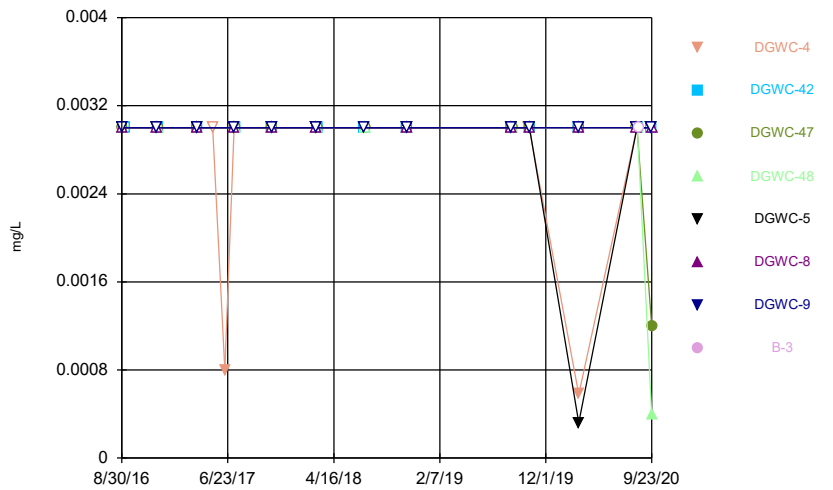
Constituent: Antimony Analysis Run 11/4/2020 3:44 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



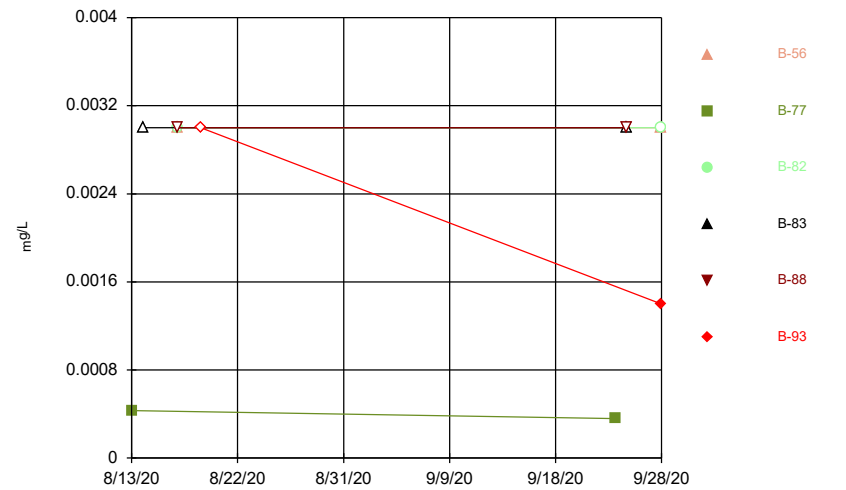
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



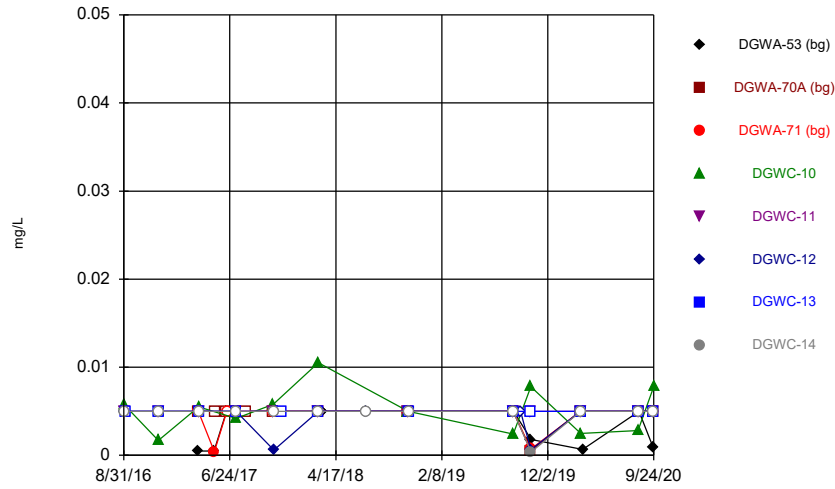
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Time Series



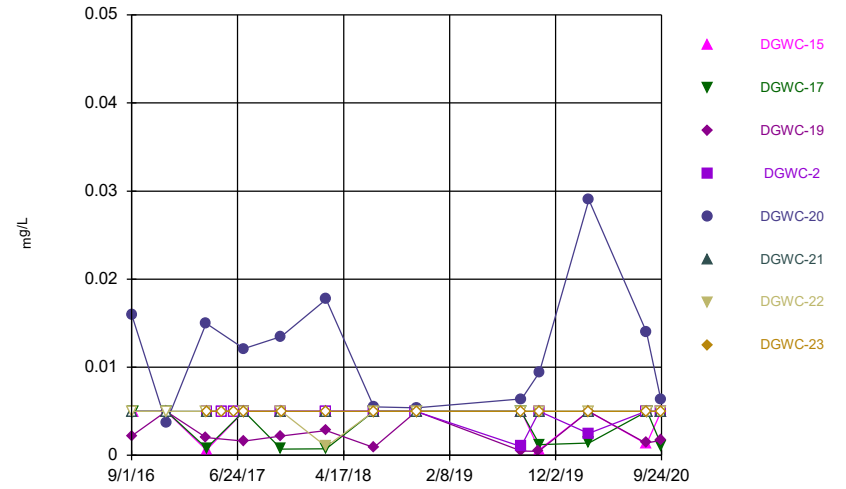
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Time Series



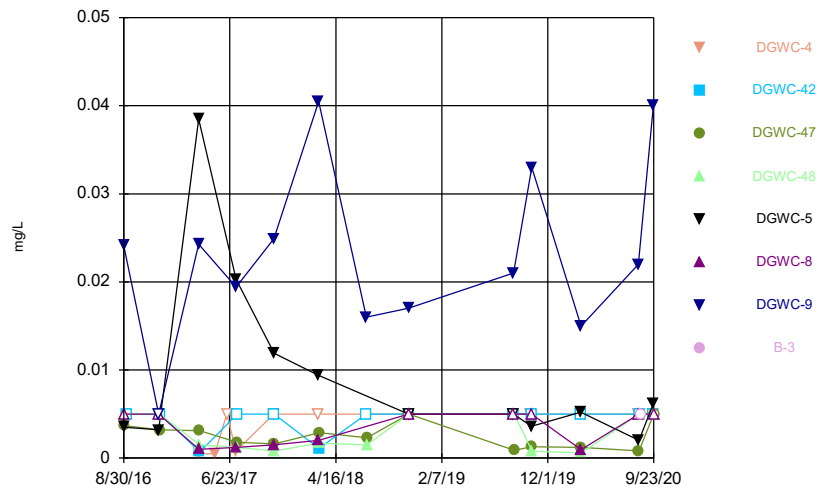
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Time Series



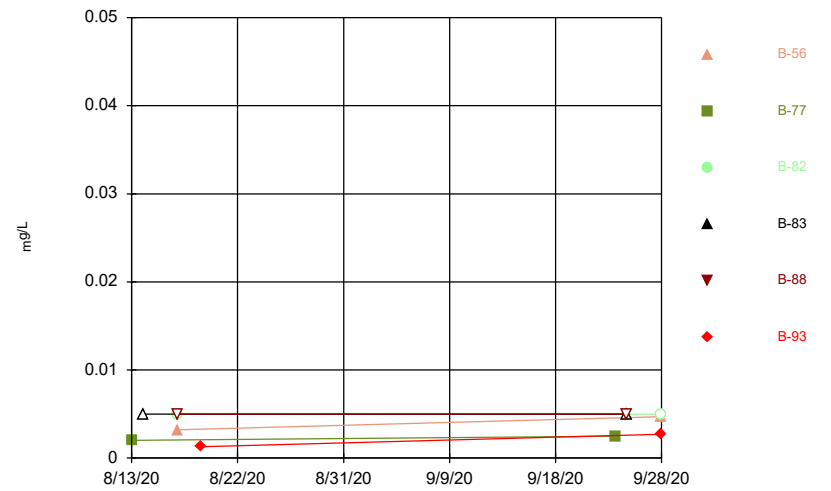
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Time Series



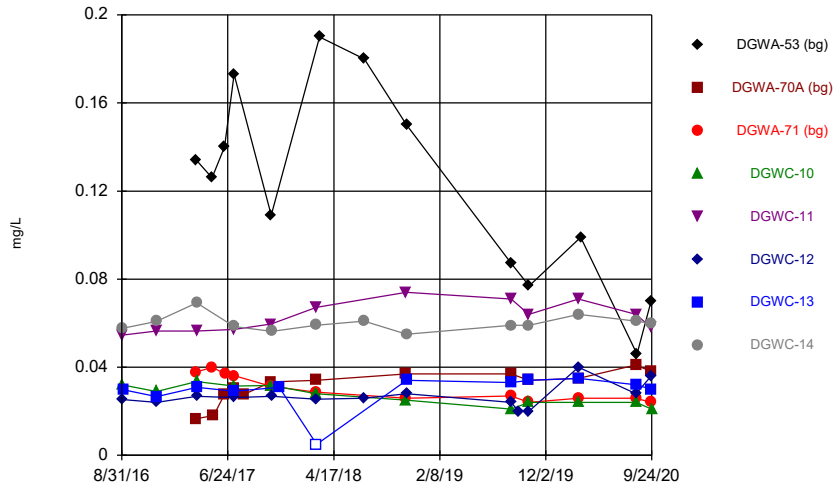
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Time Series



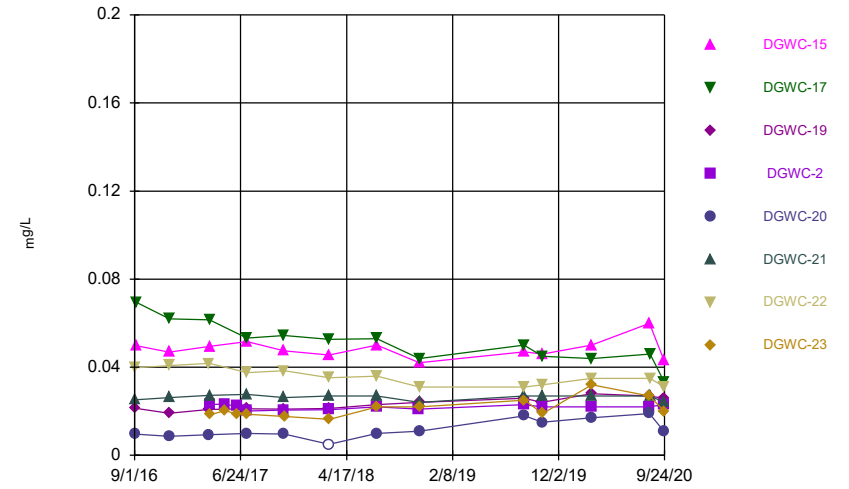
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Time Series



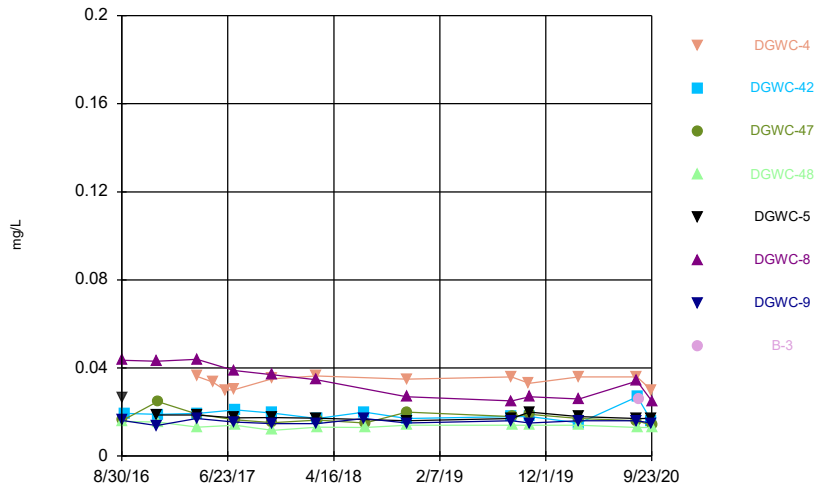
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Time Series



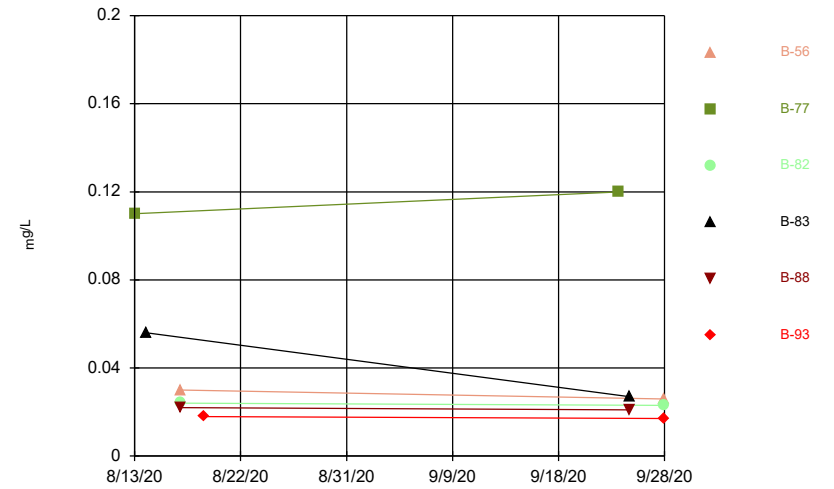
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Time Series



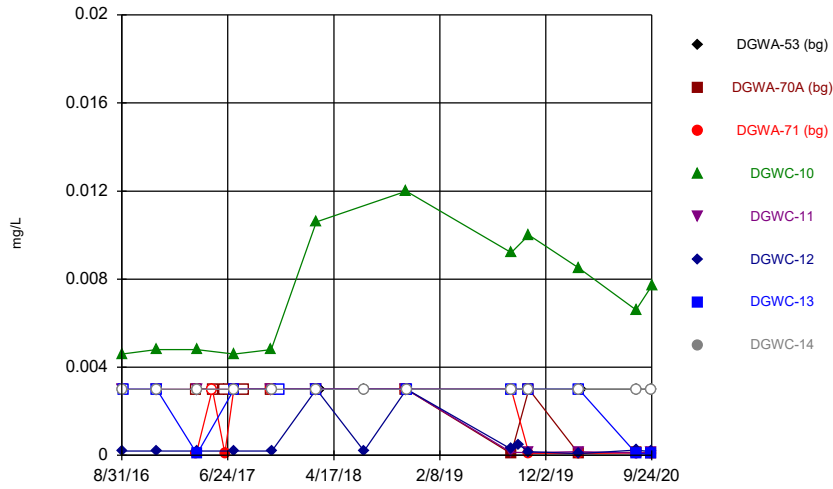
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



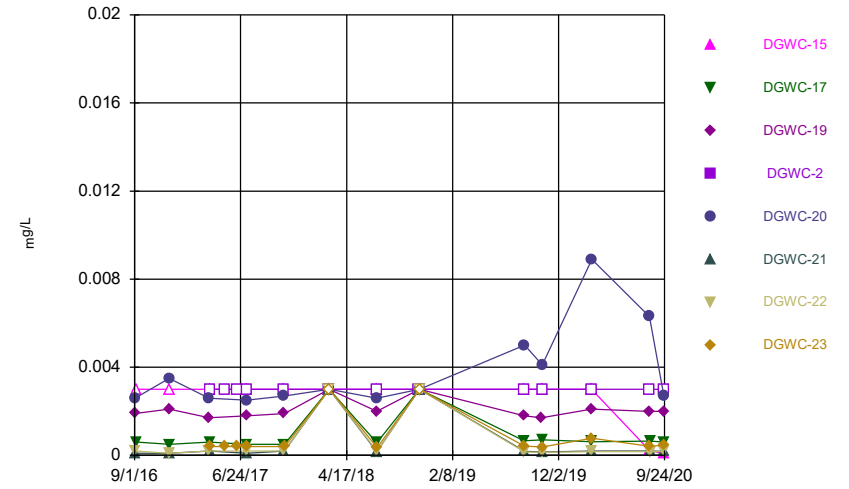
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



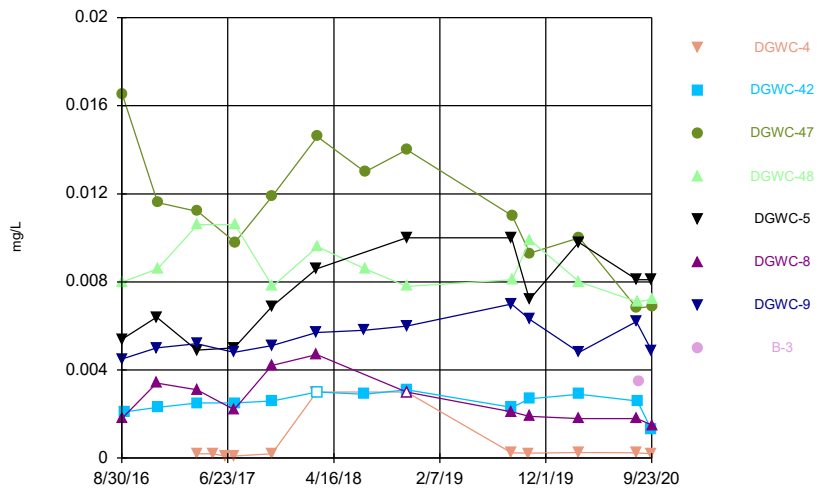
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Time Series



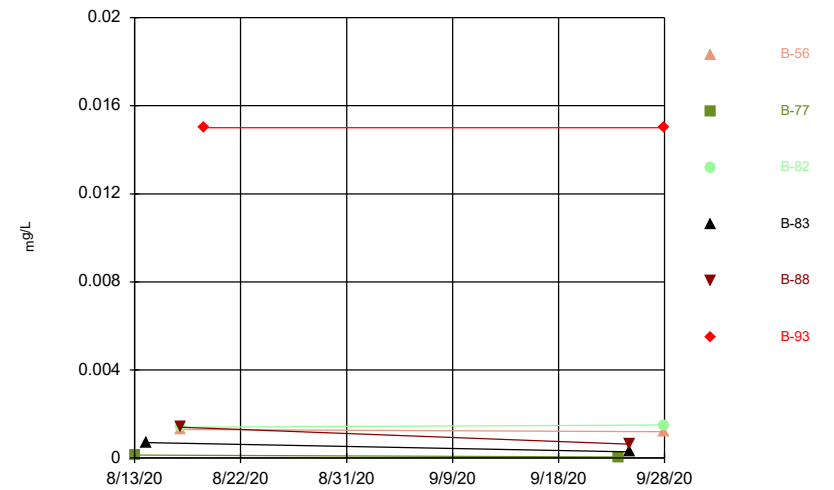
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Time Series



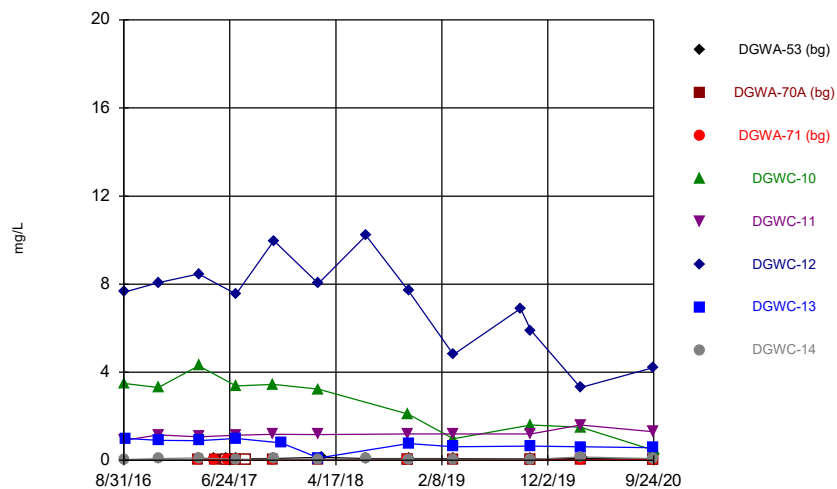
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Time Series



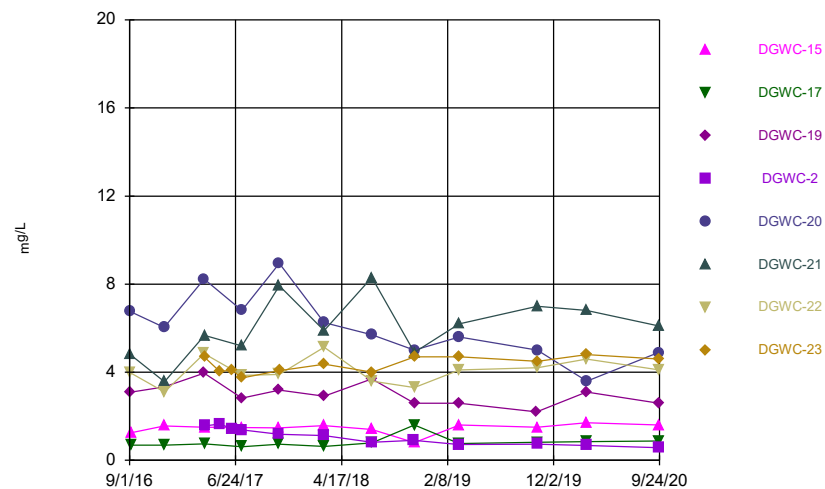
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Time Series



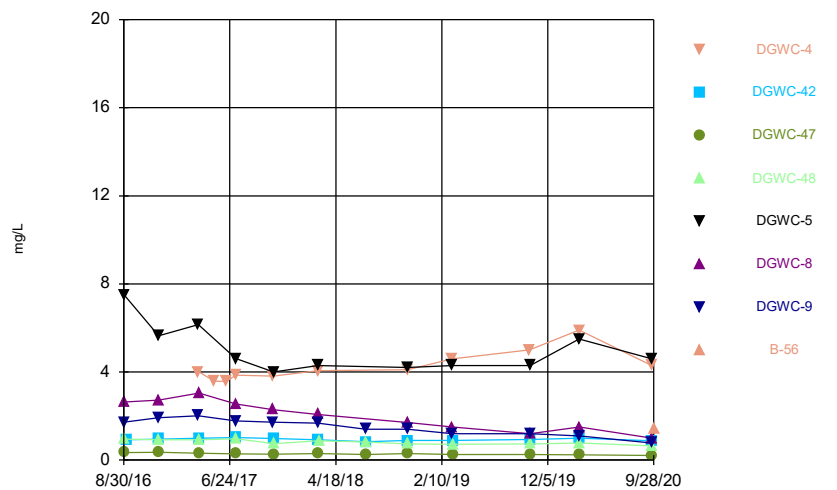
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



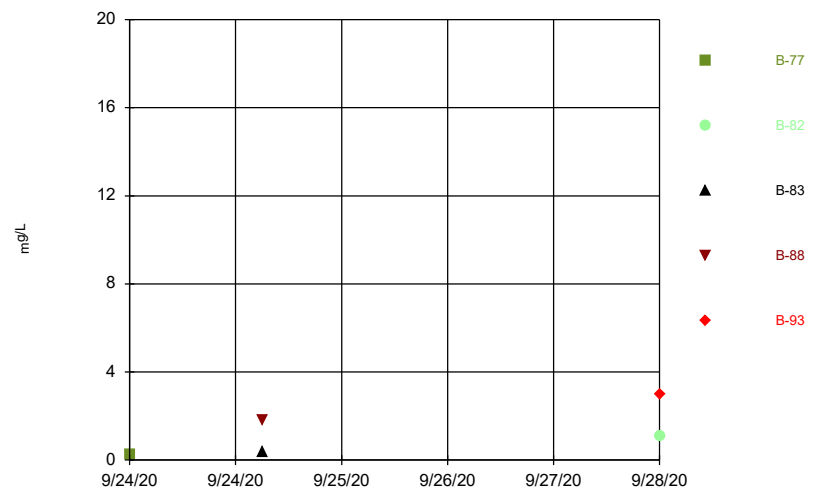
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



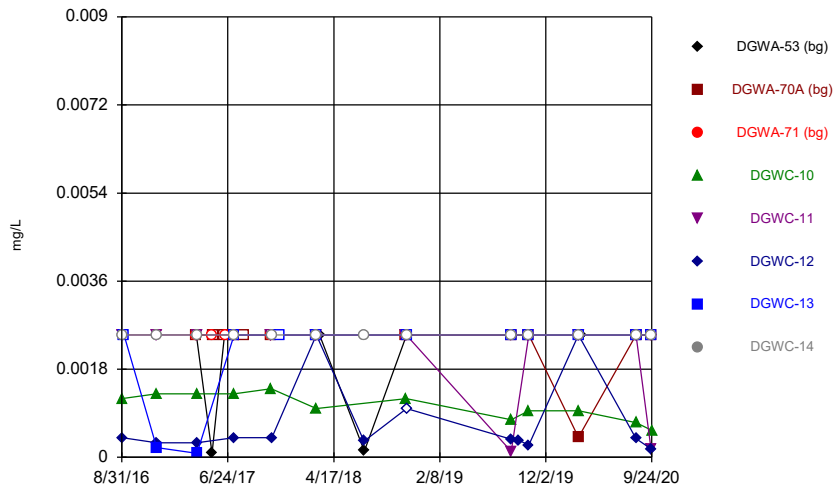
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



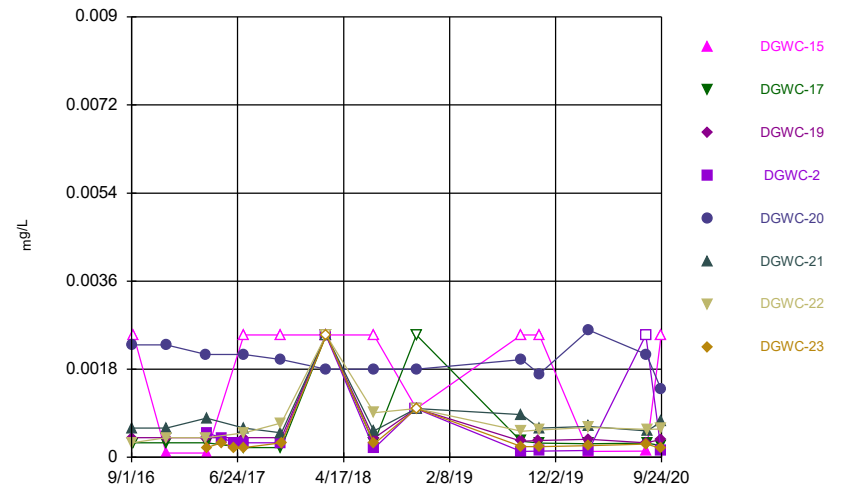
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Time Series



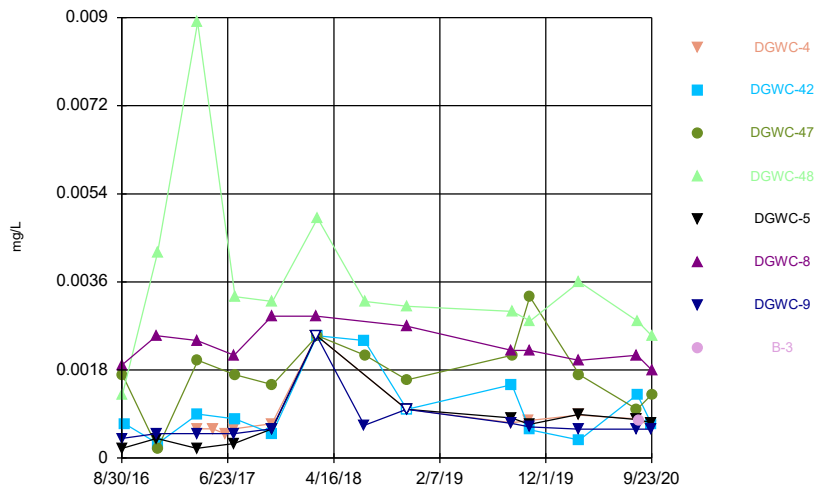
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Time Series



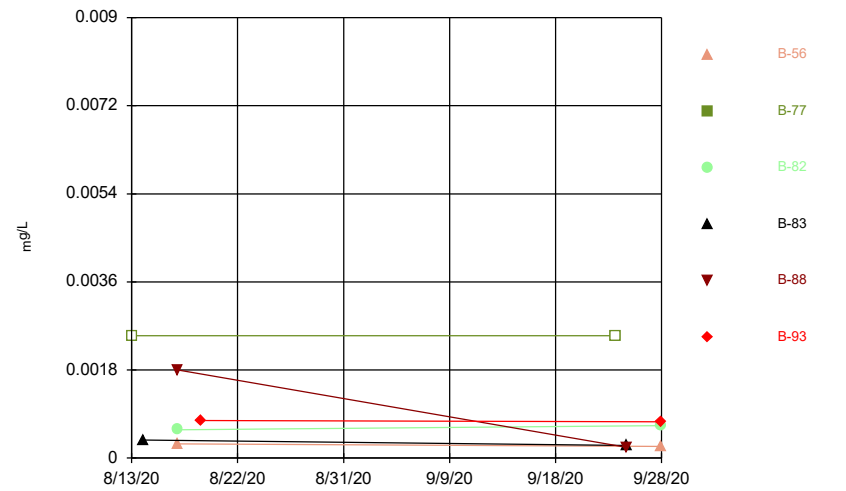
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Time Series



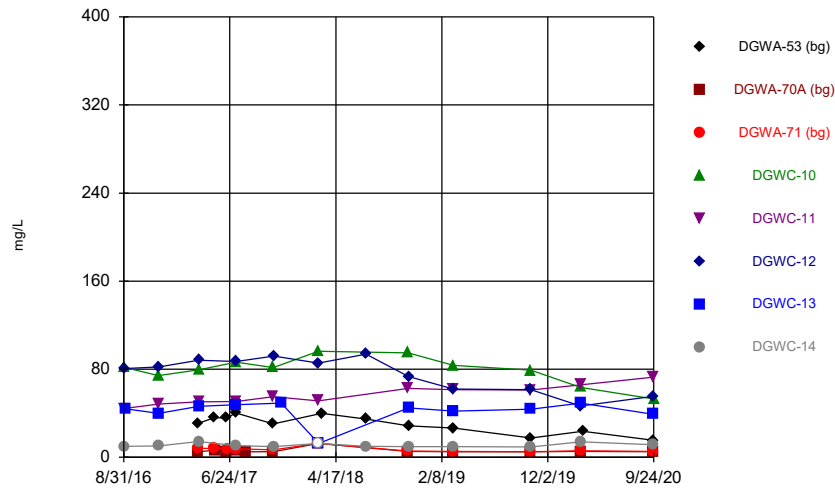
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Time Series



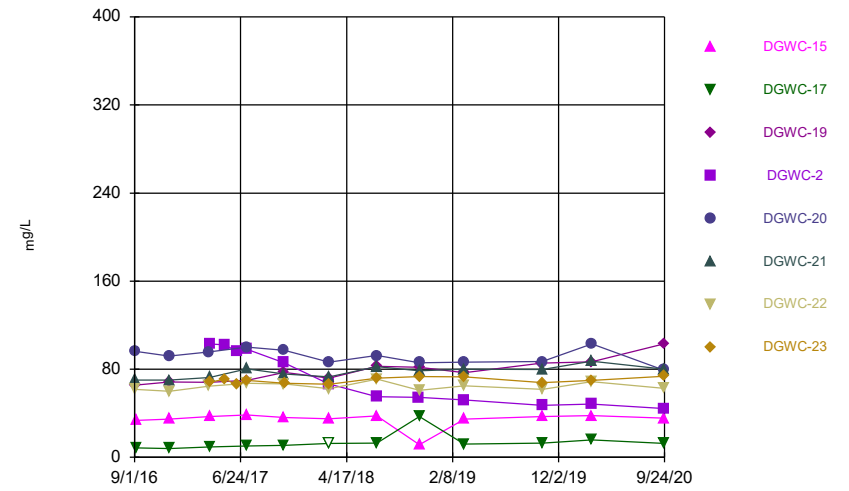
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



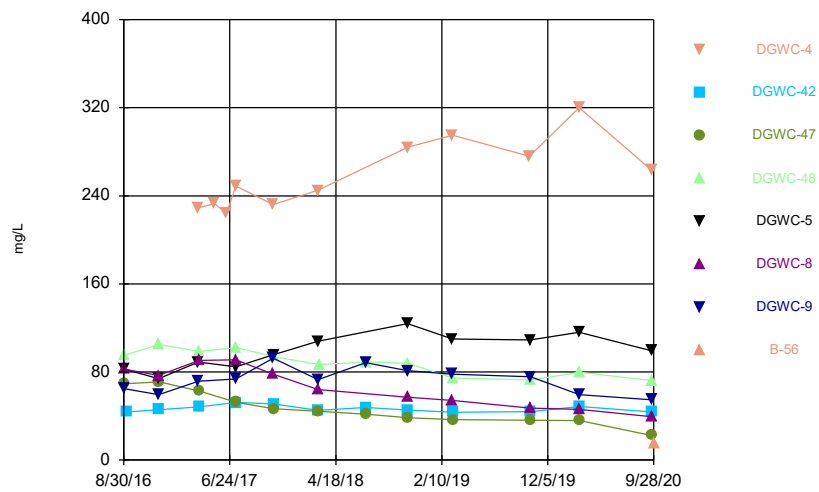
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



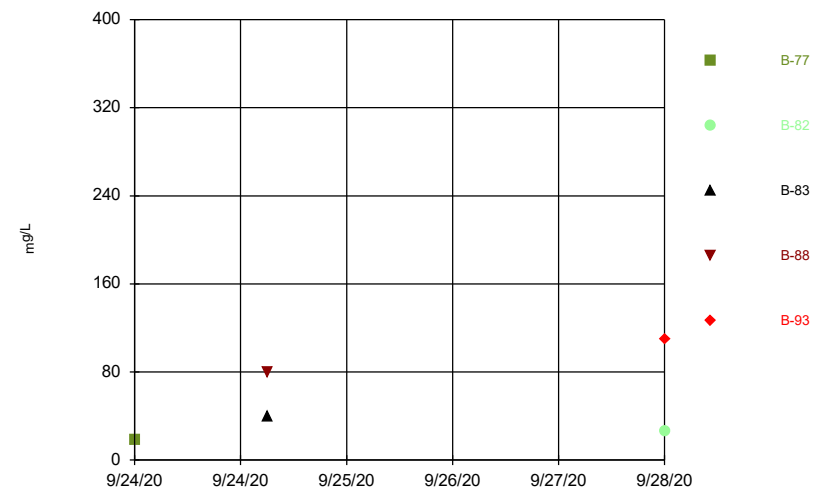
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



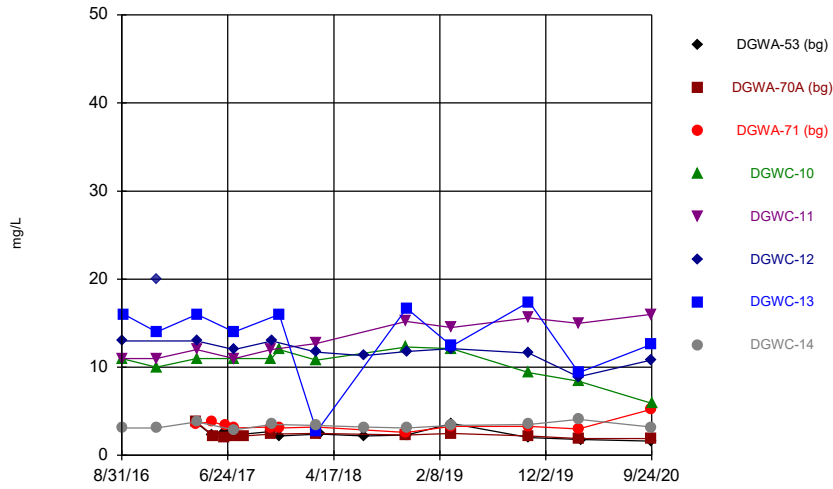
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



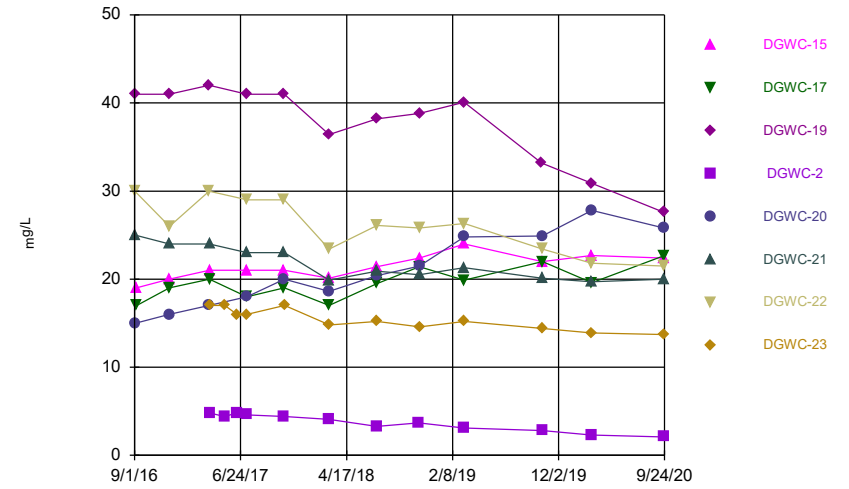
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Time Series



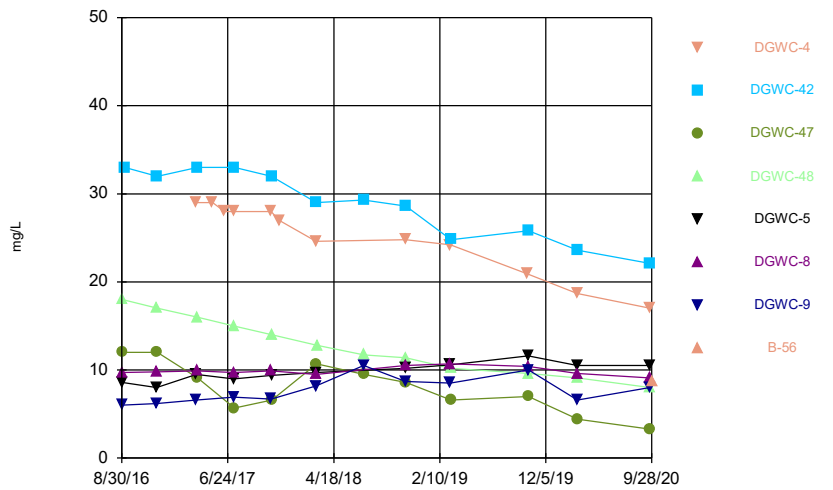
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



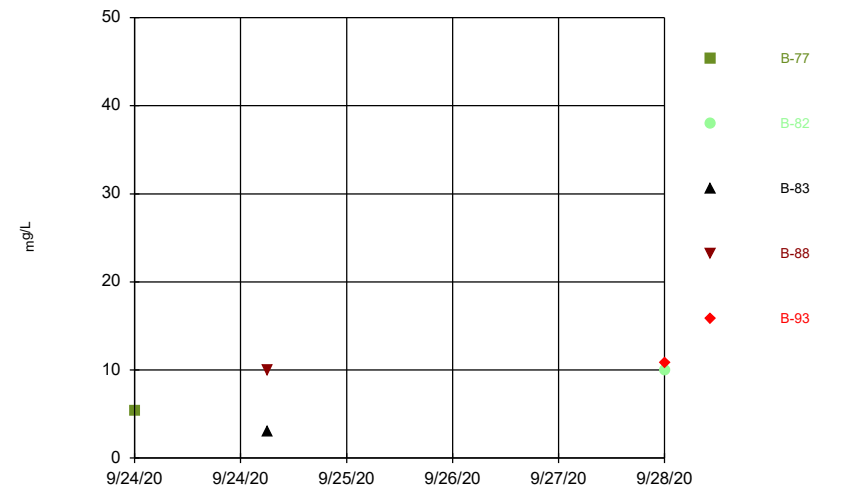
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Time Series



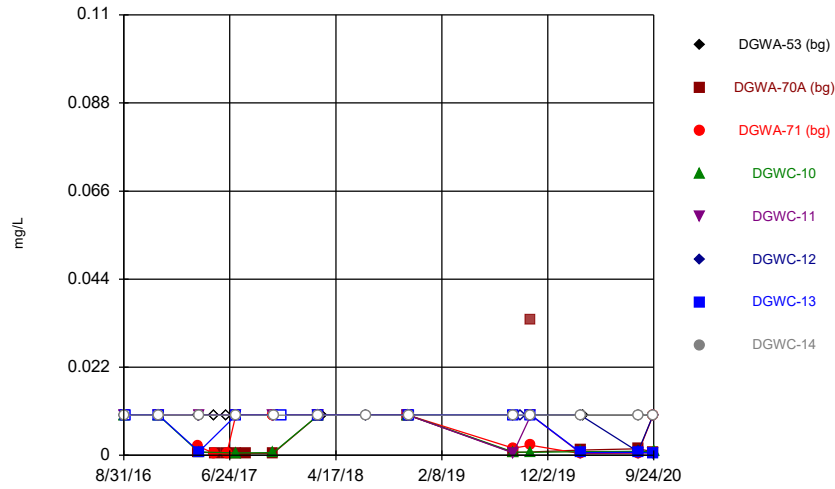
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Time Series



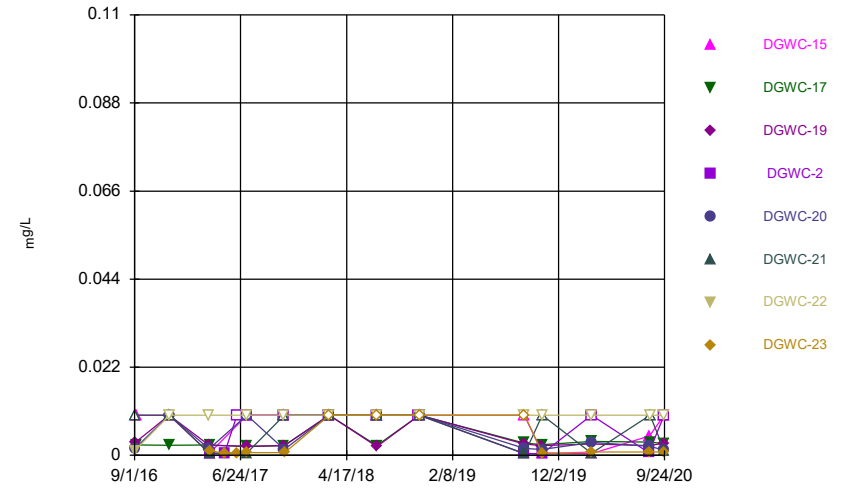
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



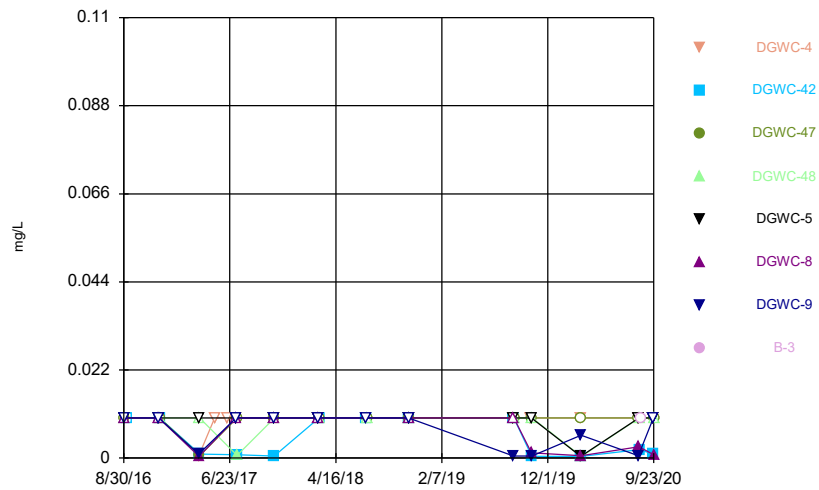
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Time Series



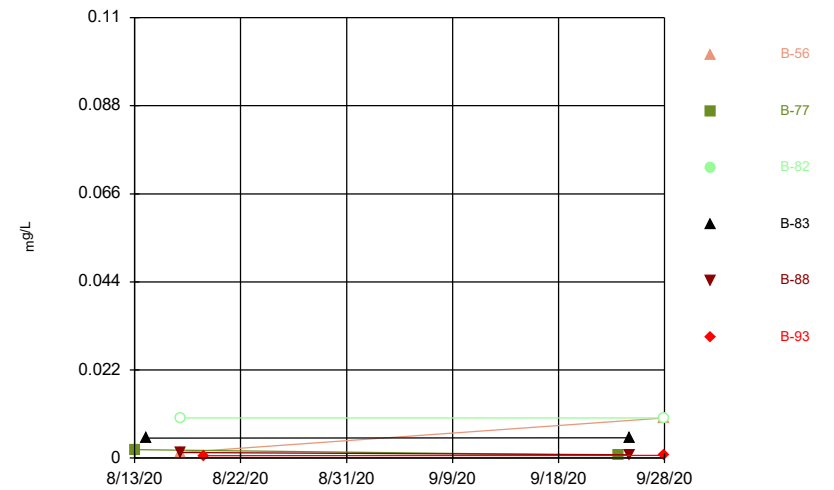
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Time Series



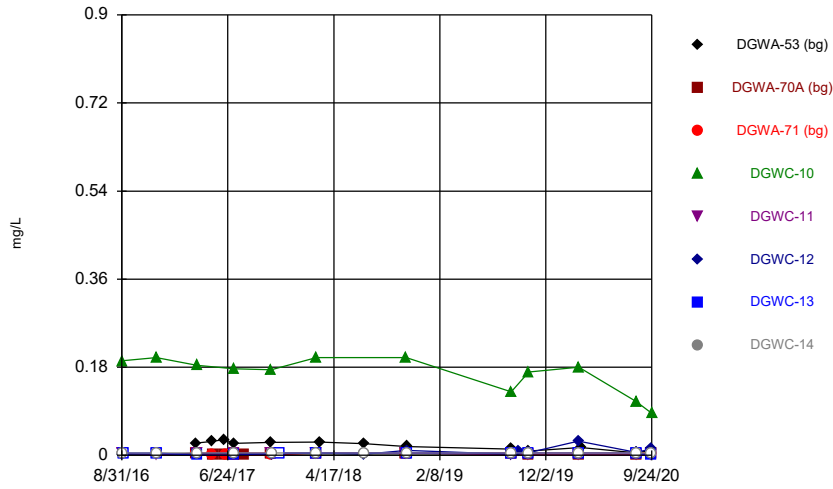
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Time Series



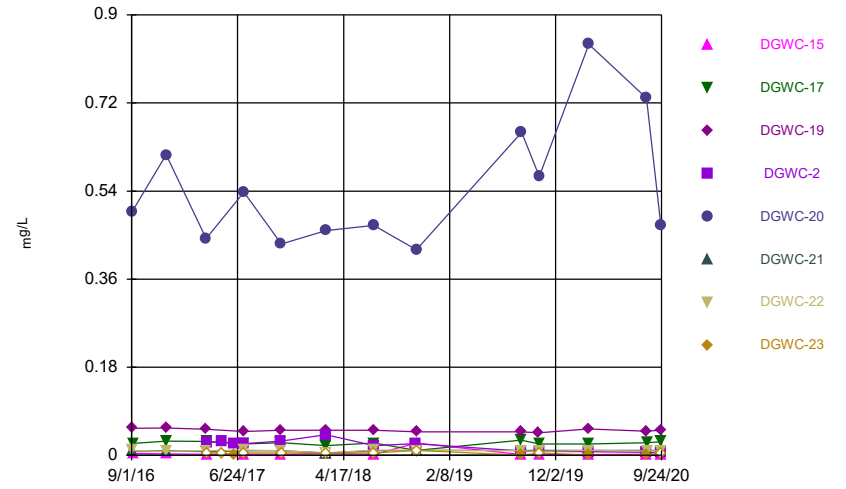
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Time Series



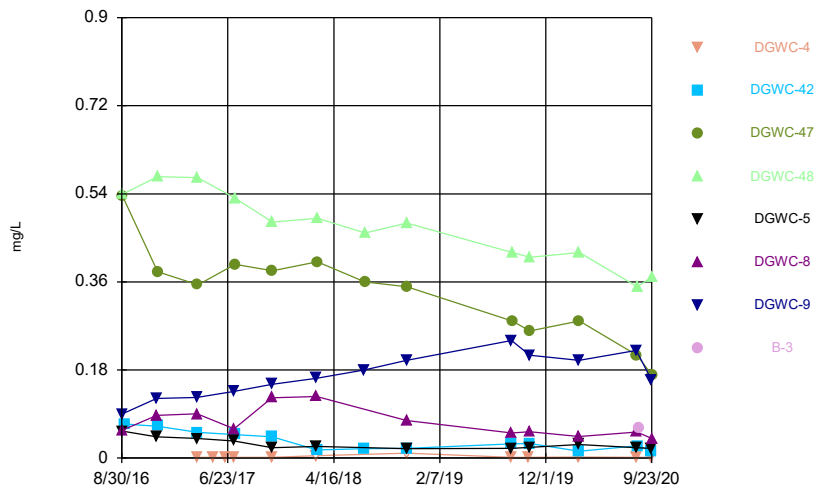
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



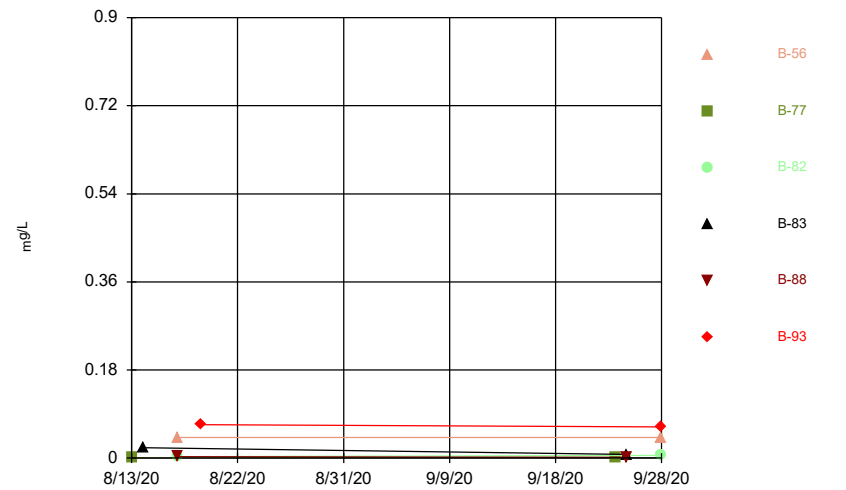
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Time Series



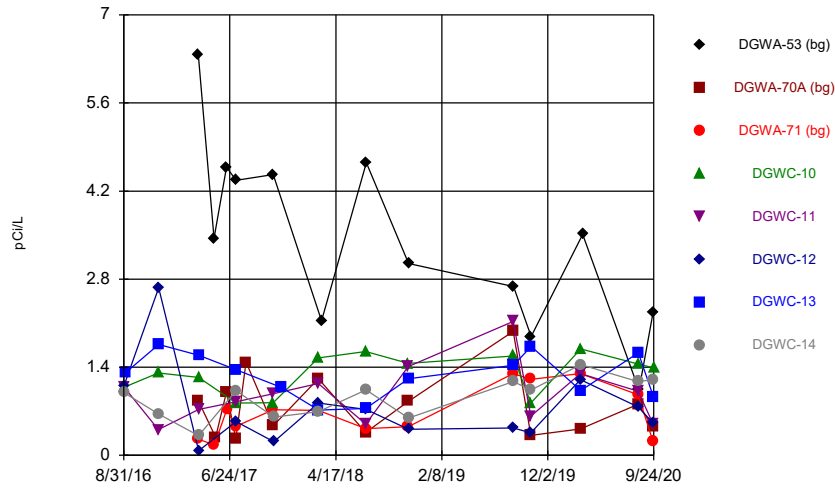
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Time Series



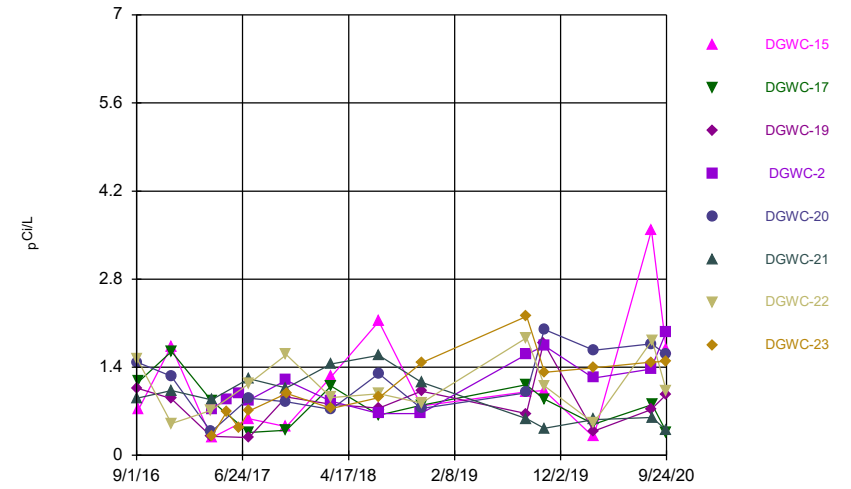
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Time Series



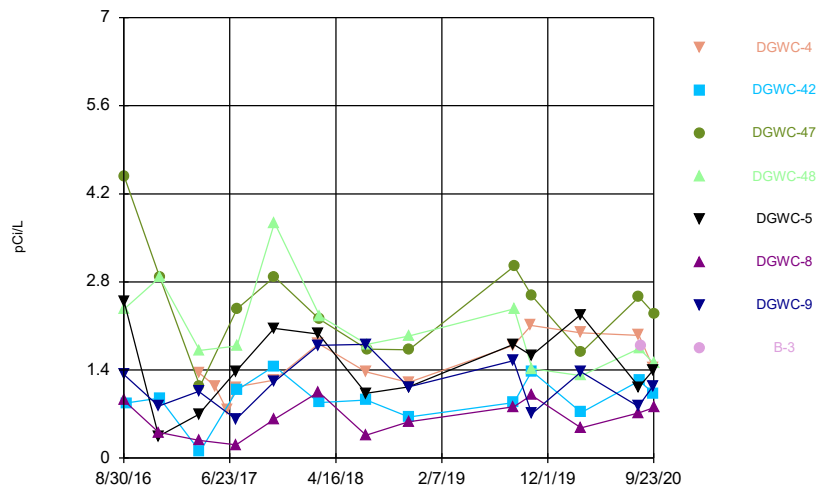
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Time Series



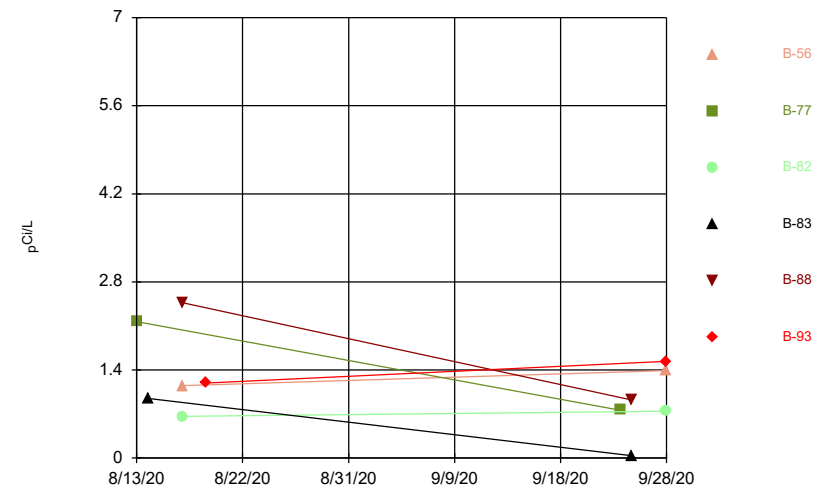
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Time Series



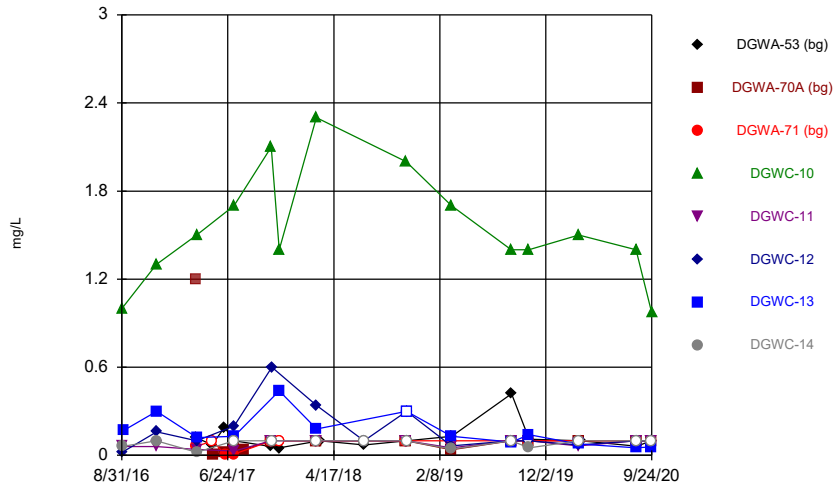
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Time Series



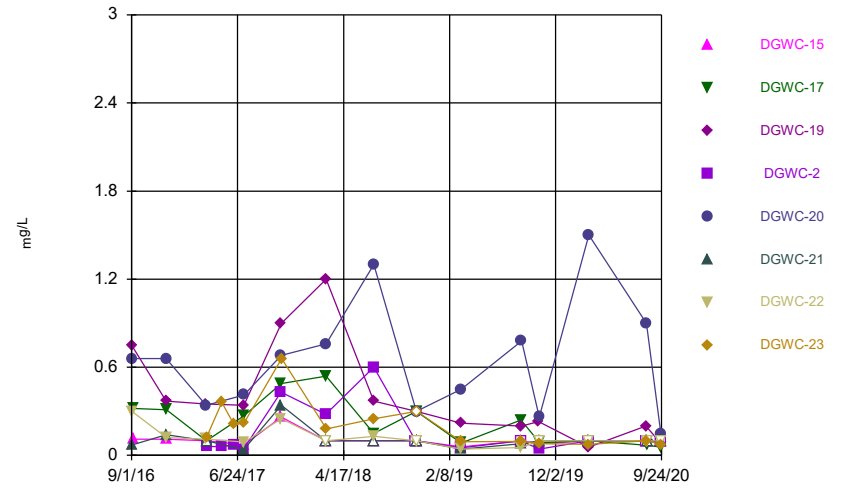
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



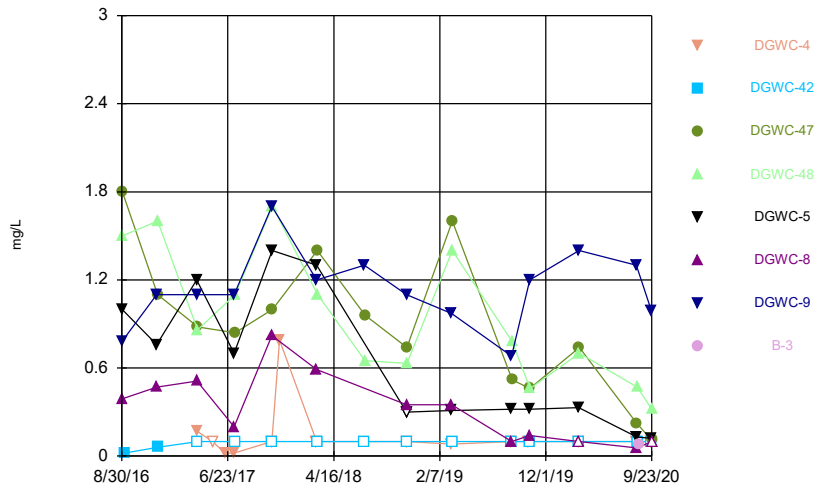
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Time Series



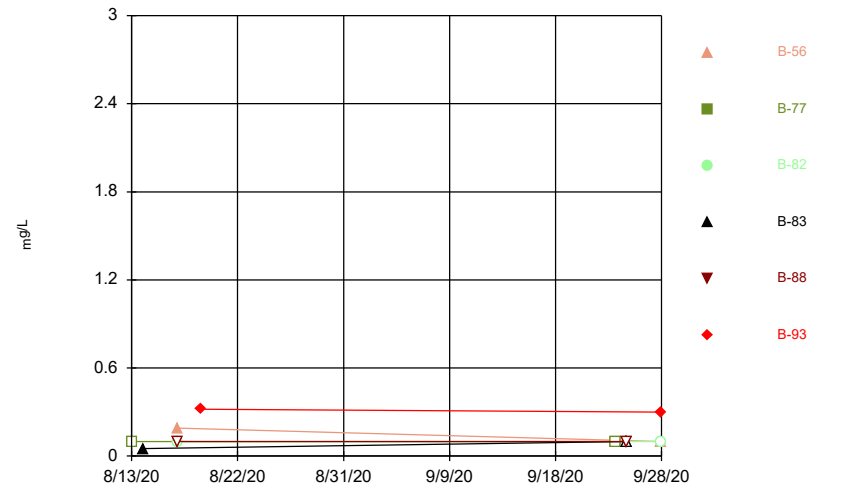
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Time Series



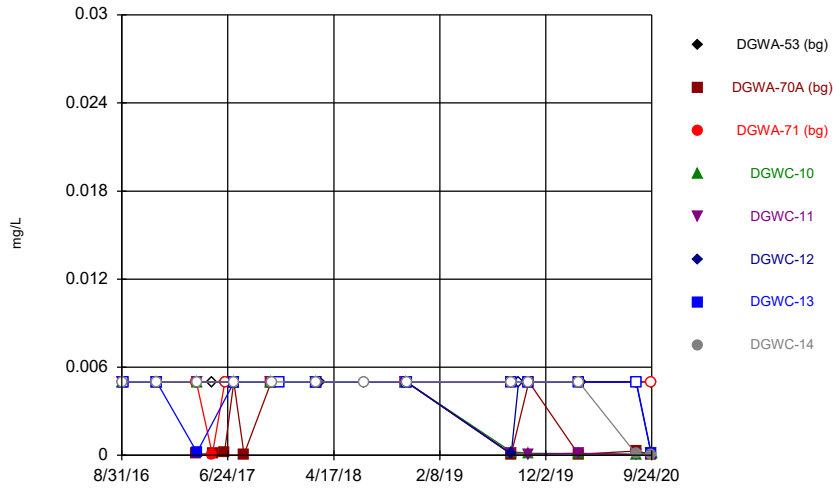
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Time Series



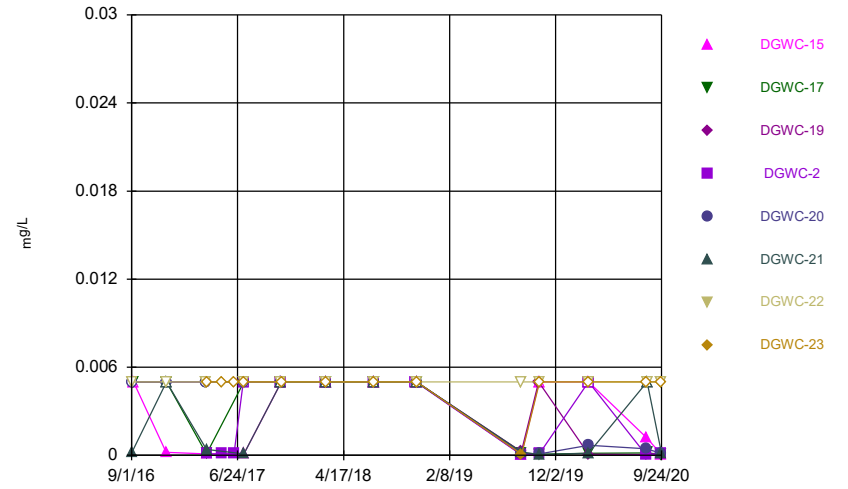
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Time Series



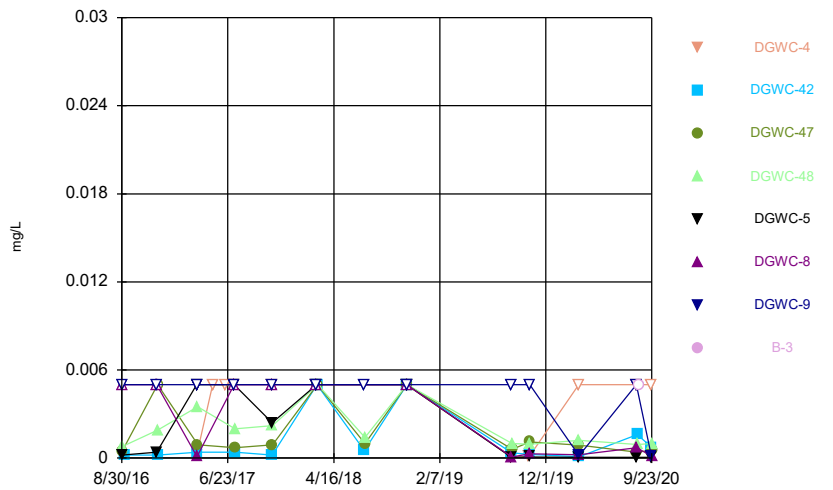
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Time Series



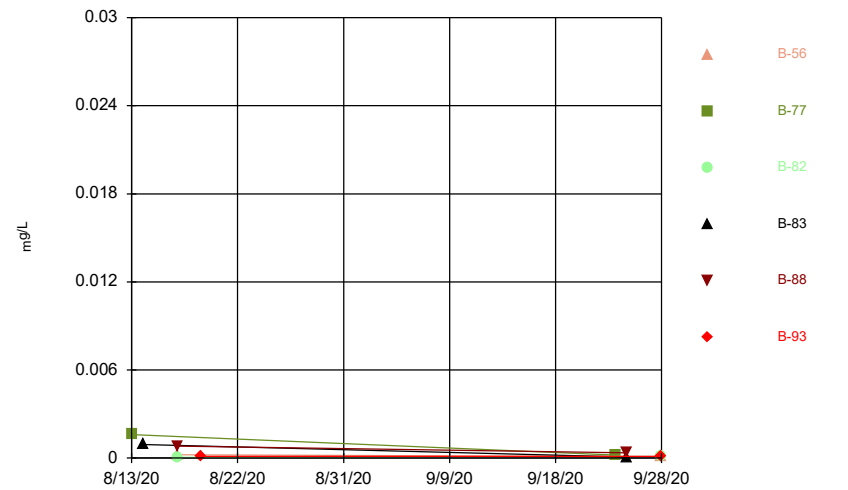
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Time Series



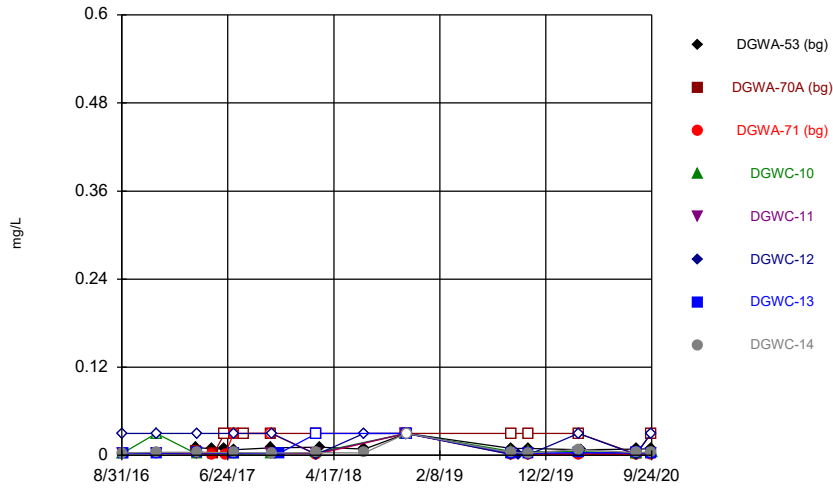
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Time Series



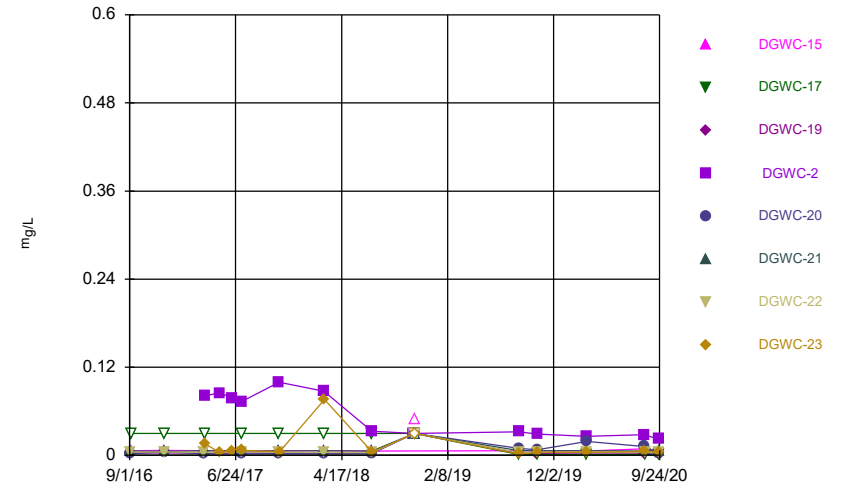
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Time Series



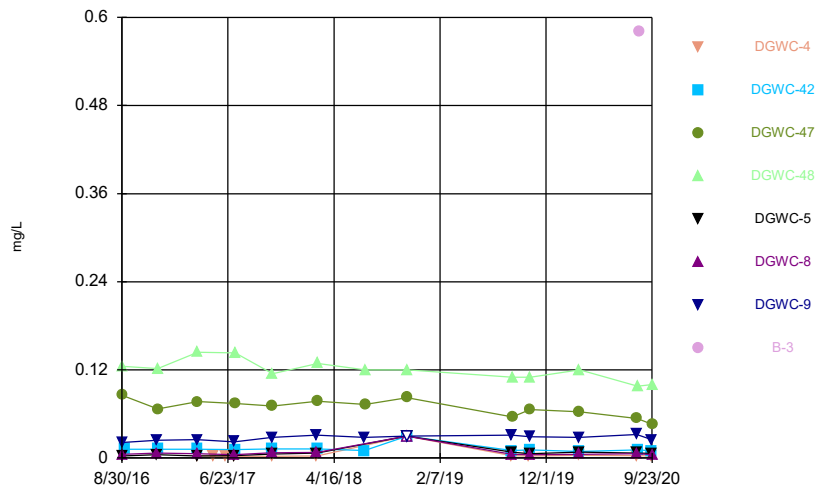
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



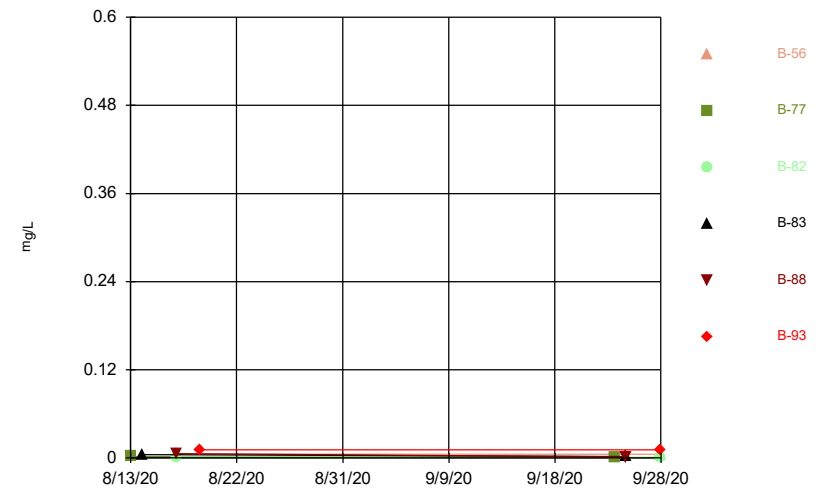
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Time Series



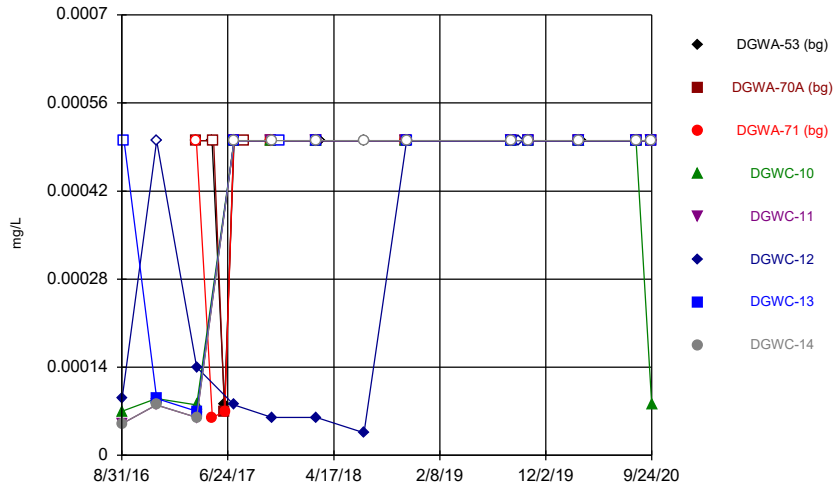
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Time Series



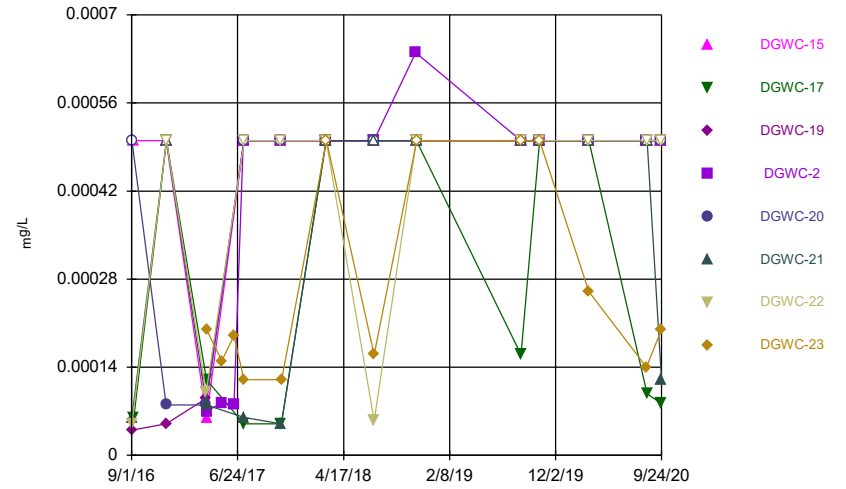
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



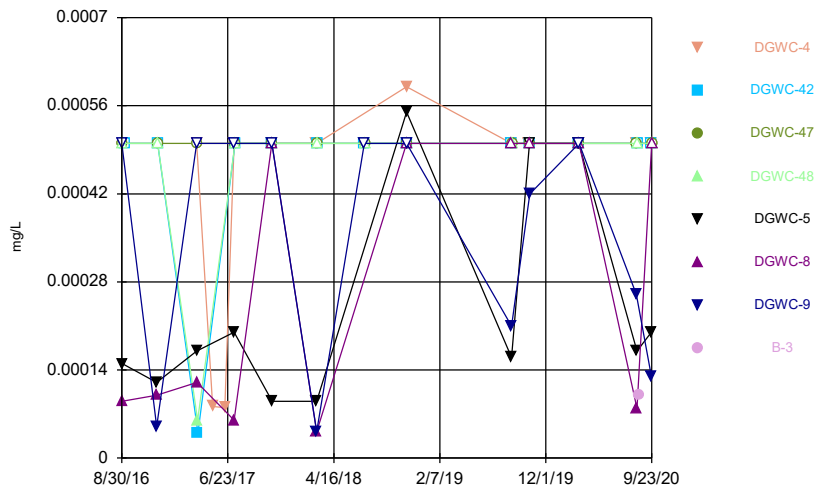
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Time Series



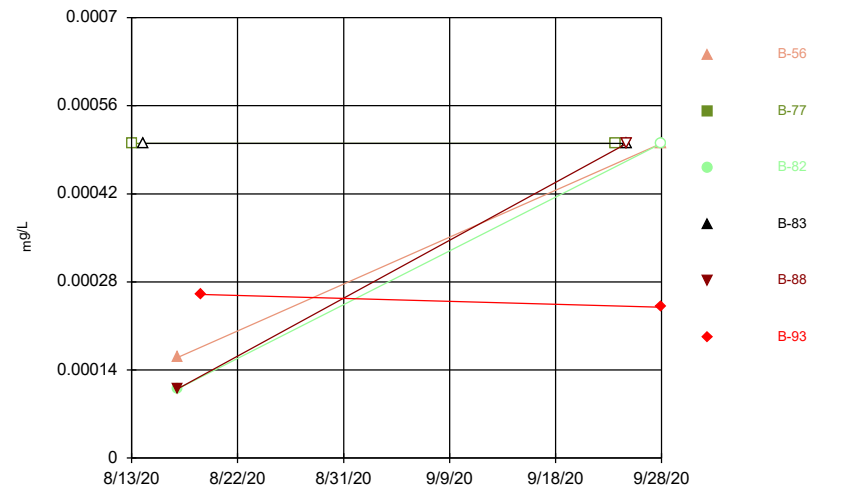
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Time Series



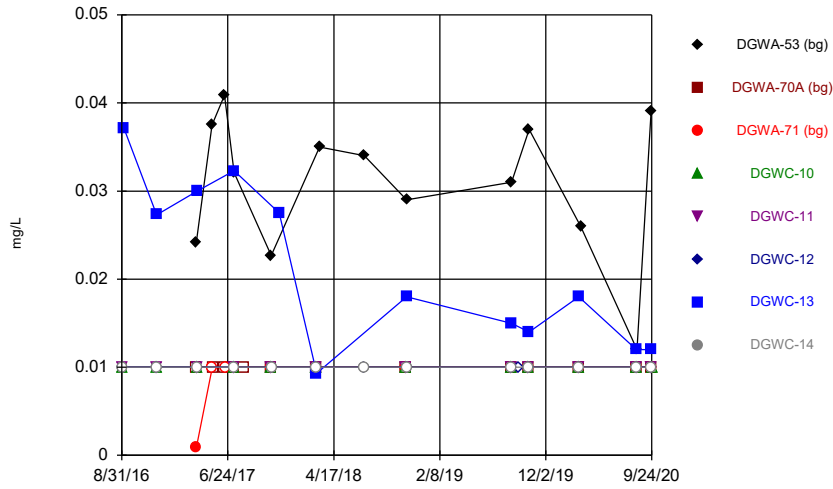
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Time Series



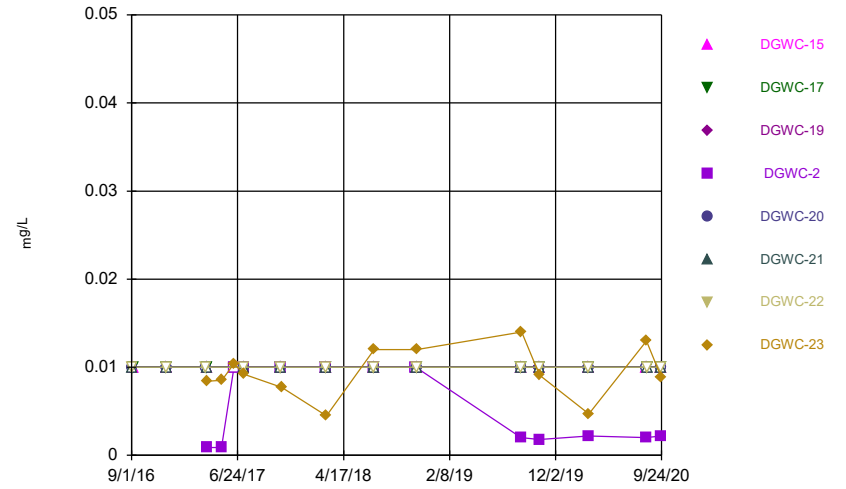
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Time Series



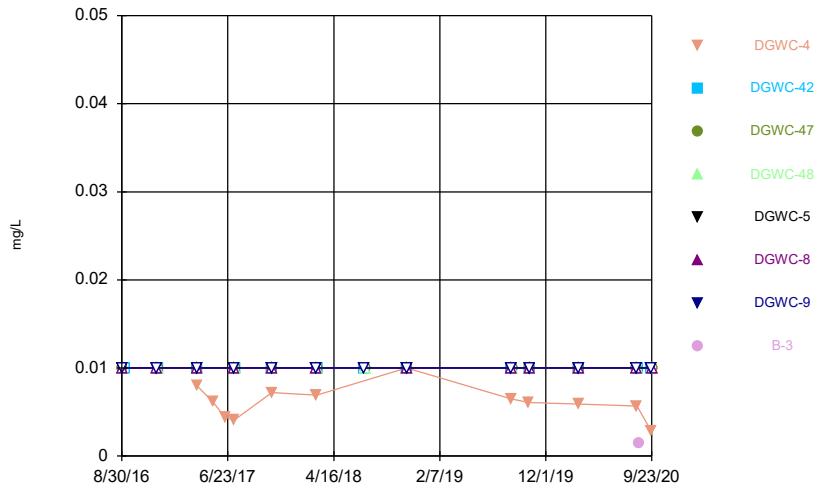
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



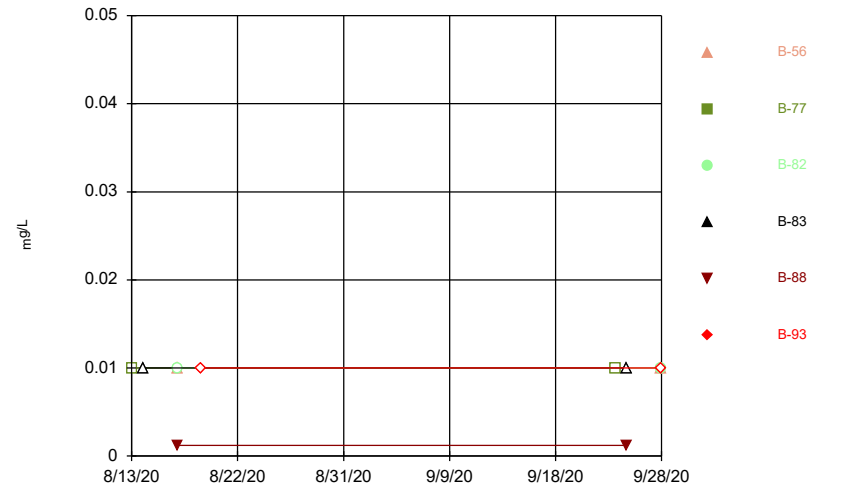
Constituent: Molybdenum Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



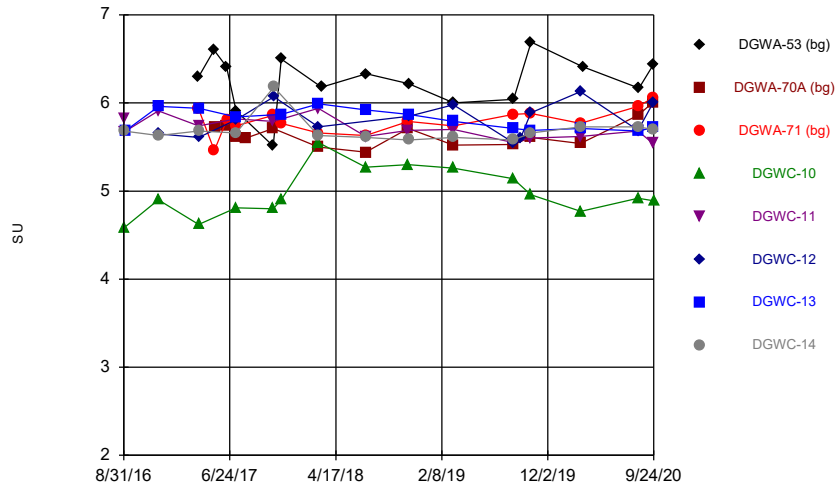
Constituent: Molybdenum Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



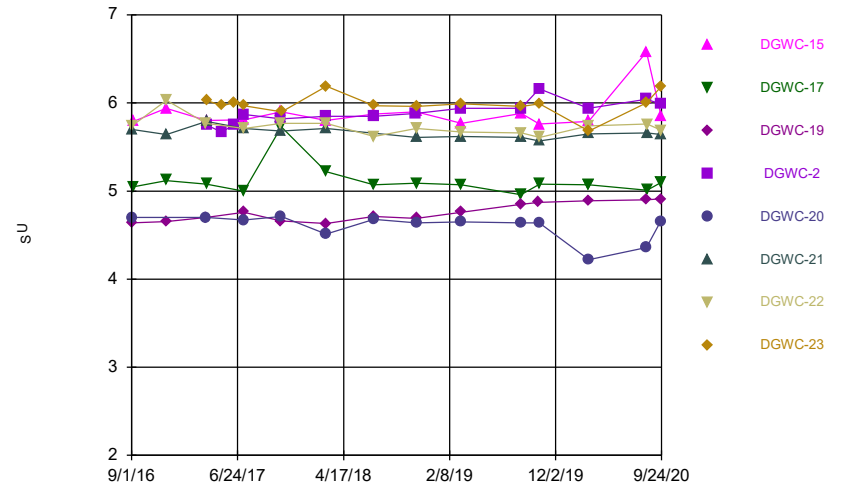
Constituent: Molybdenum Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



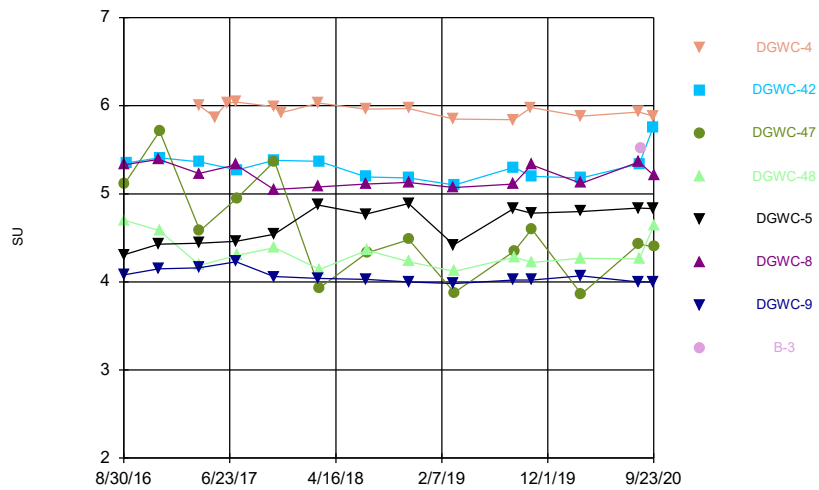
Constituent: pH Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



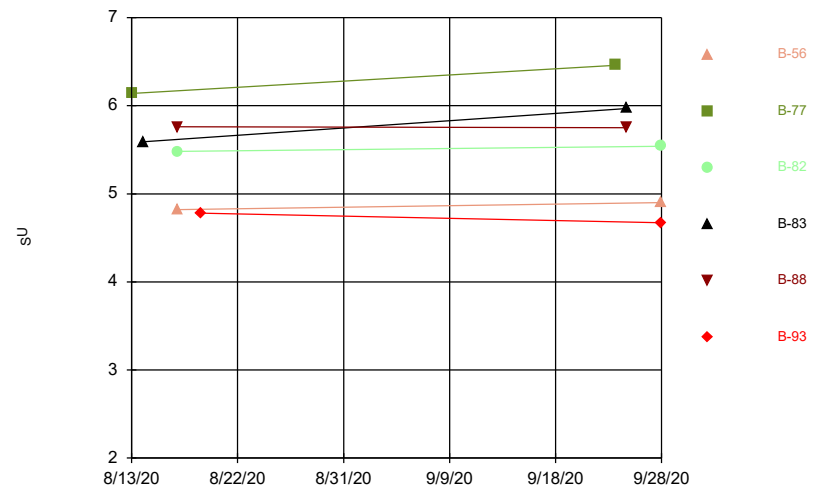
Constituent: pH Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



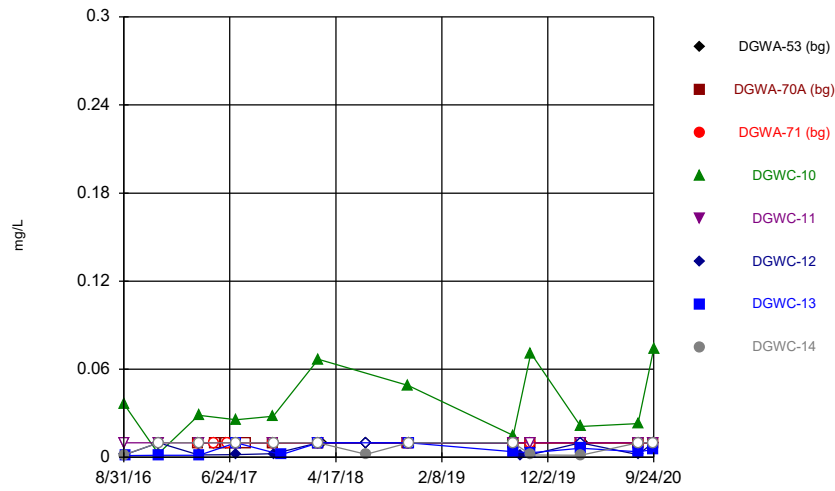
Constituent: pH Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



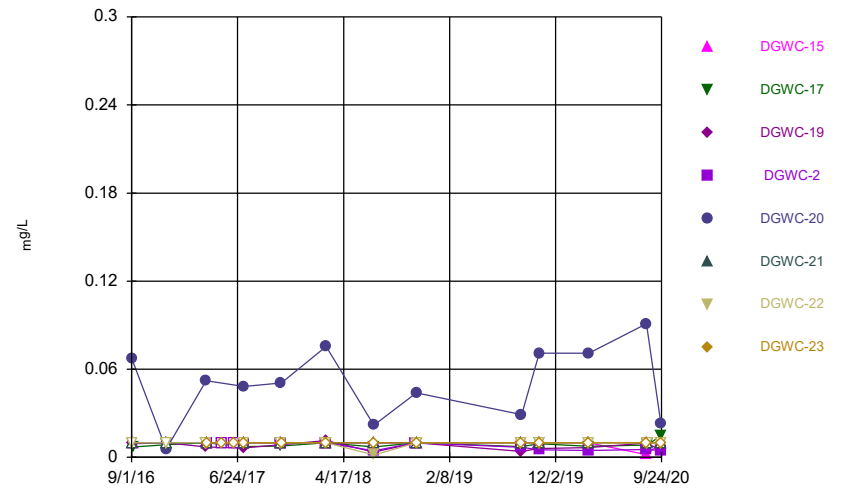
Constituent: pH Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



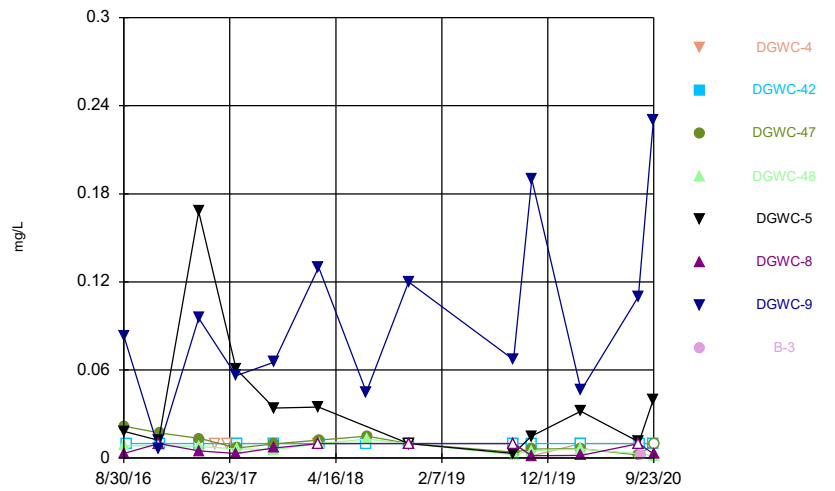
Constituent: Seleniun Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



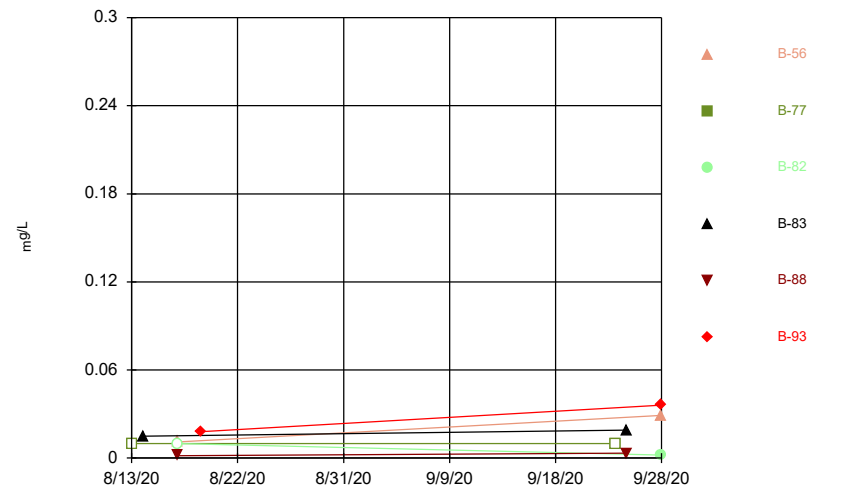
Constituent: Seleniun Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



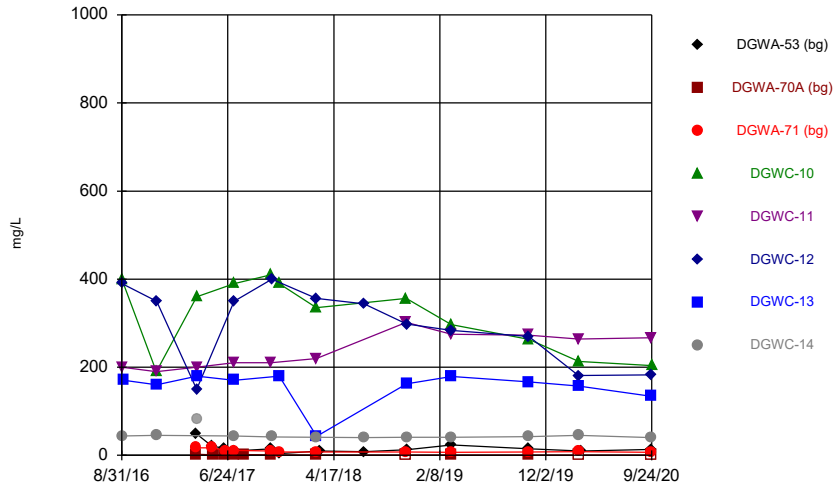
Constituent: Seleniun Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



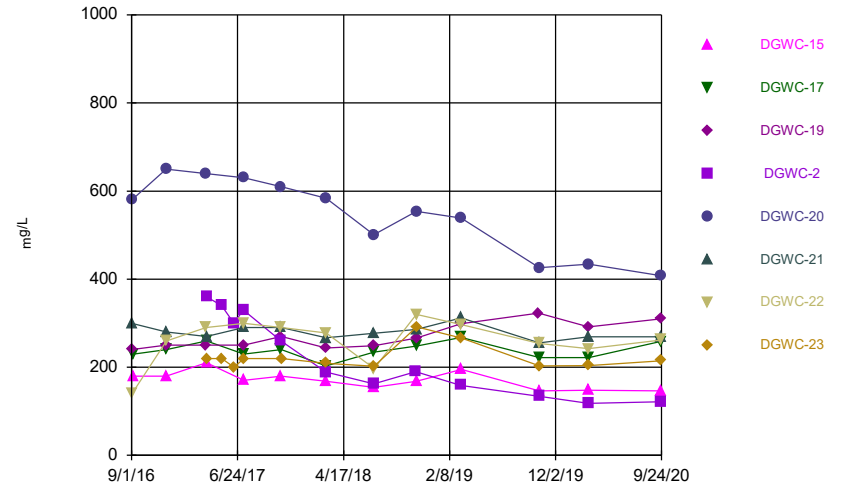
Constituent: Seleniun Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



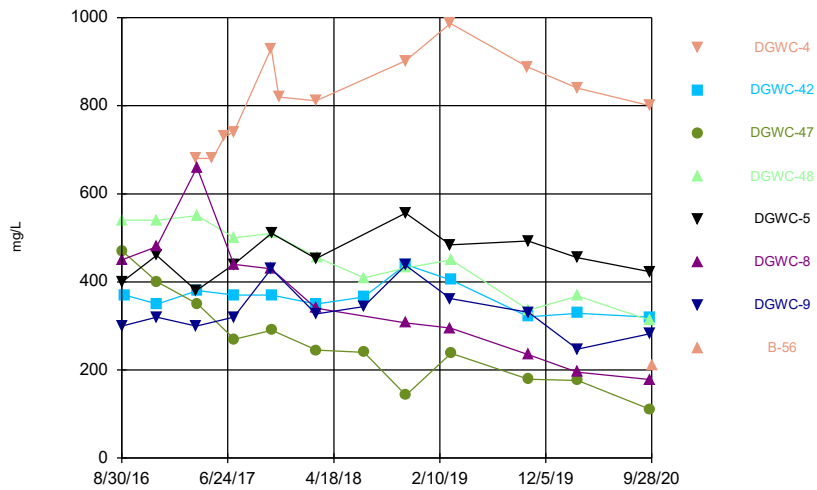
Constituent: Sulfate Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



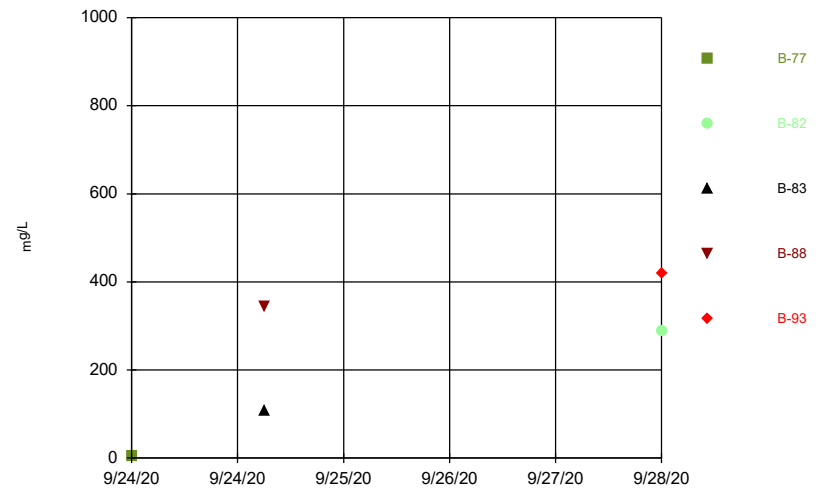
Constituent: Sulfate Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



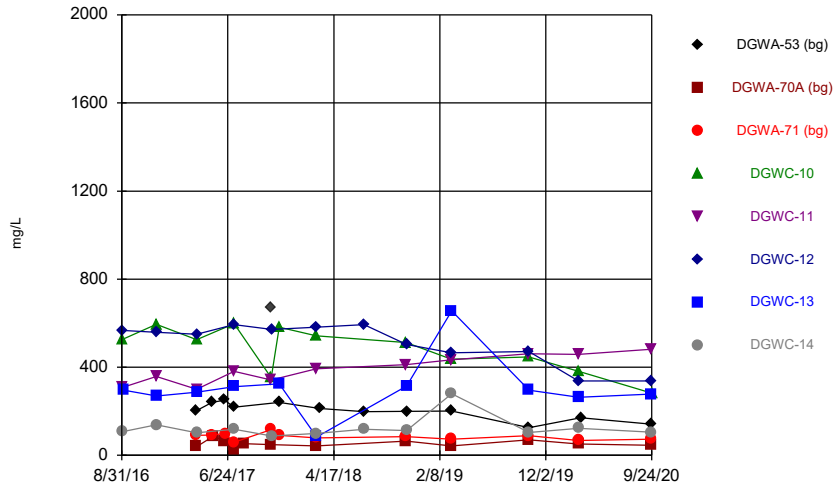
Constituent: Sulfate Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



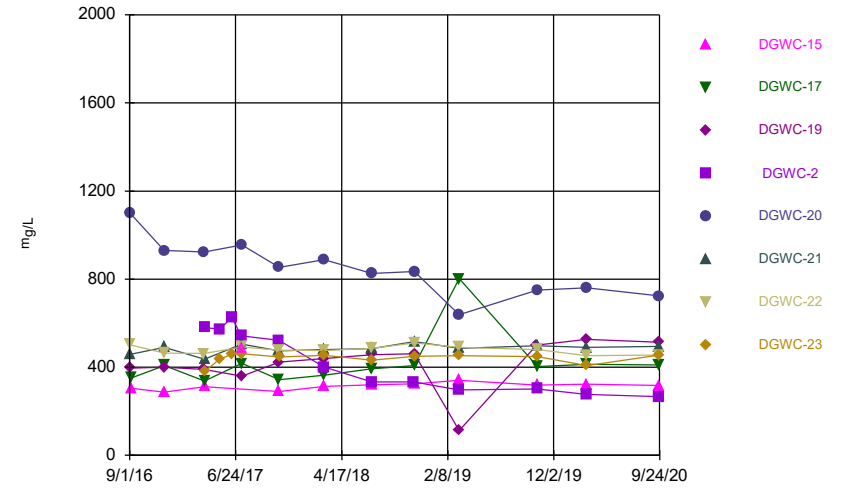
Constituent: Sulfate Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



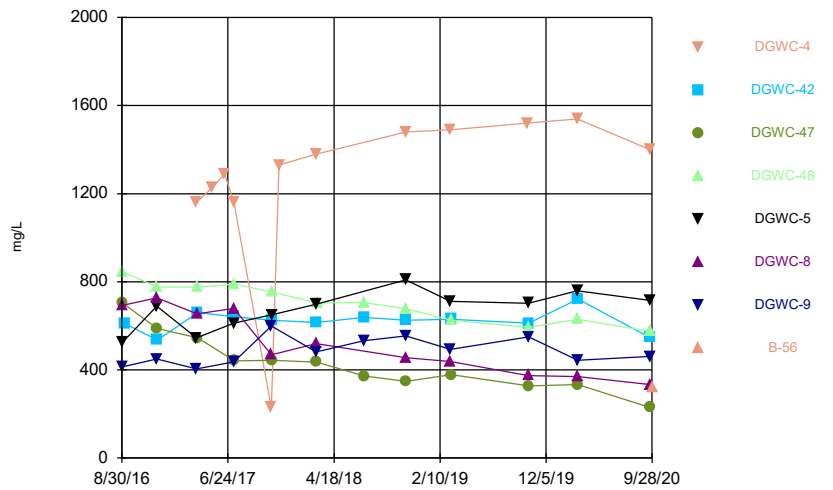
Constituent: TDS Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



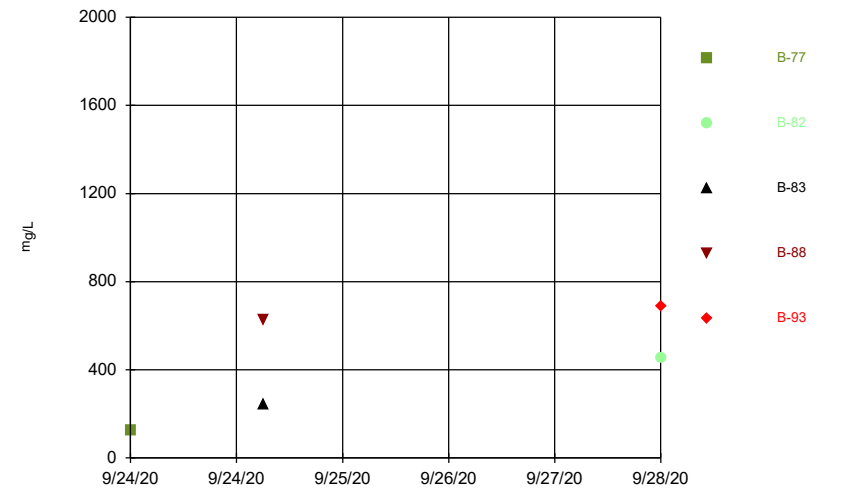
Constituent: TDS Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



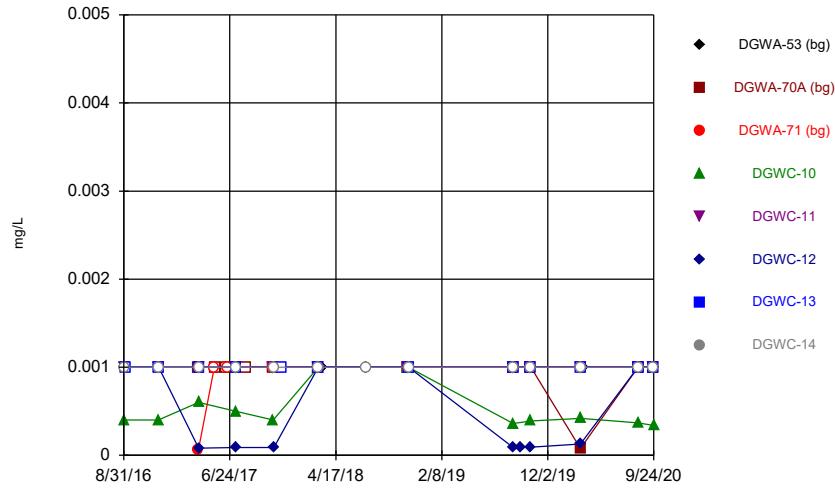
Constituent: TDS Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



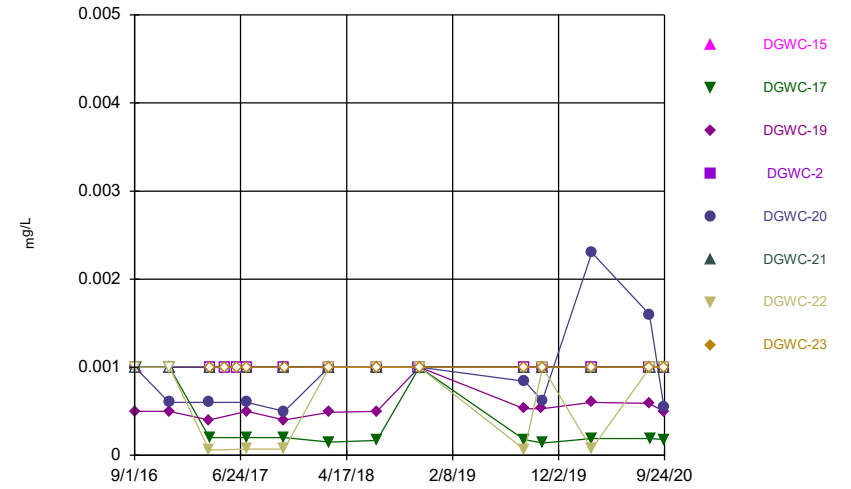
Constituent: TDS Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



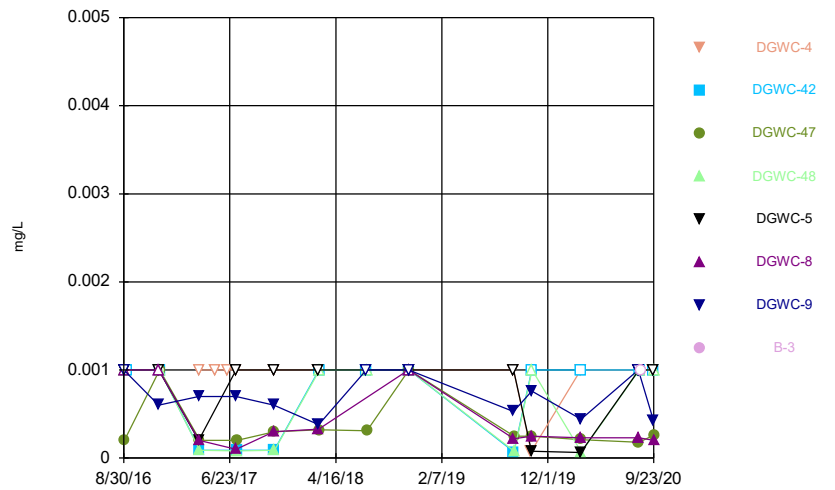
Constituent: Thallium Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



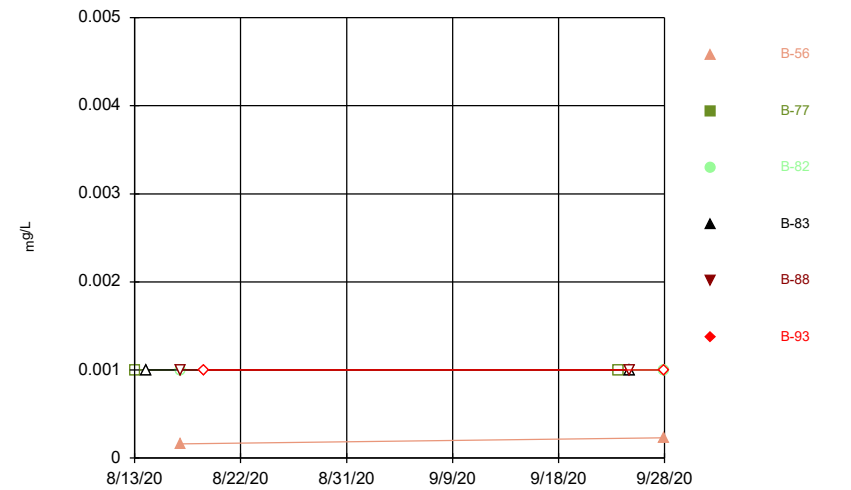
Constituent: Thallium Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Thallium Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Thallium Analysis Run 11/4/2020 3:45 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/4/2020 3:49 PM View: Descriptive 2-3-4

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
12/6/2016				<0.003	<0.003			<0.003	
12/7/2016						<0.003	<0.003		<0.003
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
3/2/2020		<0.003	0.0018 (J)		<0.003	0.0003 (J)			
3/3/2020				<0.003			<0.003	<0.003	<0.003
3/9/2020	<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)
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					

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/4/2020 3:49 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		<0.003							
9/2/2016				<0.003	<0.003	<0.003			
9/7/2016	<0.003								<0.003
12/7/2016		<0.003		<0.003					
12/8/2016	<0.003				<0.003	<0.003			<0.003
3/28/2017								<0.003	
3/29/2017		<0.003		<0.003		<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		<0.003	<0.003		<0.003		
7/13/2017						<0.003			<0.003
10/24/2017			<0.003					<0.003	
10/25/2017	<0.003	<0.003		<0.003	<0.003	<0.003			<0.003
10/26/2017							<0.003		
2/27/2018			<0.003					<0.003	
2/28/2018	<0.003	<0.003		<0.003	<0.003	<0.003			<0.003
3/1/2018							<0.003		
7/11/2018	<0.003	<0.003	<0.003	<0.003	0.0013 (J)				<0.003
7/12/2018						<0.003	<0.003		
11/6/2018			<0.003					<0.003	
11/7/2018	<0.003	<0.003		<0.003	<0.003	<0.003			<0.003
11/8/2018							<0.003		
8/27/2019	<0.003		<0.003					<0.003	
8/28/2019		<0.003							<0.003
8/29/2019				<0.003	<0.003	<0.003	<0.003		
10/15/2019								<0.003	
10/16/2019		<0.003							
10/17/2019			<0.003	<0.003	<0.003				<0.003
10/18/2019	<0.003					<0.003	<0.003		
3/2/2020								0.00058 (J)	
3/3/2020		<0.003	<0.003		<0.003	<0.003			
3/4/2020	<0.003			<0.003			<0.003		<0.003
8/11/2020		<0.003	<0.003						
8/12/2020								<0.003	
8/13/2020				<0.003			<0.003		<0.003
8/14/2020	<0.003				<0.003	<0.003			
9/22/2020		0.00036 (J)		<0.003				<0.003	<0.003
9/23/2020			<0.003						
9/24/2020	0.00045 (J)				<0.003	<0.003	<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/4/2020 3:49 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				<0.003	<0.003				
8/31/2016			<0.003						
9/1/2016	<0.003	<0.003							
12/6/2016			<0.003	<0.003	<0.003				
12/8/2016	<0.003	<0.003							
3/28/2017			<0.003		<0.003				
3/29/2017				<0.003					
3/30/2017		<0.003							
3/31/2017	<0.003								
7/11/2017			<0.003	<0.003	<0.003				
7/13/2017	<0.003	<0.003							
10/24/2017				<0.003	<0.003				
10/25/2017			<0.003						
10/26/2017	<0.003	<0.003							
2/27/2018			<0.003	<0.003	<0.003				
3/1/2018	<0.003								
3/2/2018		<0.003							
7/11/2018					<0.003				
7/12/2018	<0.003	<0.003							
11/6/2018			<0.003	<0.003	<0.003				
11/7/2018	<0.003	<0.003							
8/27/2019			<0.003		<0.003				
8/28/2019				<0.003					
8/29/2019	<0.003	<0.003							
10/16/2019			<0.003	<0.003					
10/17/2019	<0.003				<0.003				
10/18/2019		<0.003							
3/2/2020			0.00032 (J)						
3/3/2020				<0.003	<0.003				
3/4/2020	<0.003	<0.003							
8/11/2020					<0.003				
8/12/2020	<0.003		<0.003	<0.003					
8/13/2020		<0.003						0.00043 (J)	
8/17/2020						<0.003	<0.003		<0.003
9/22/2020			<0.003		<0.003				
9/23/2020	0.0012 (J)	0.00039 (J)		<0.003					
9/24/2020								0.00036 (J)	
9/28/2020							<0.003		<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/4/2020 3:49 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	<0.003		
8/17/2020		<0.003	
8/19/2020			<0.003
9/25/2020	<0.003	<0.003	
9/28/2020			0.0014 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/4/2020 3:49 PM View: Descriptive 2-3-4

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
12/6/2016				0.0017 (J)	<0.005			<0.005	
12/7/2016						<0.005	<0.005		<0.005
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	<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)
3/2/2020		<0.005	<0.005		<0.005	<0.005			
3/3/2020				0.0025 (J)			<0.005	<0.005	<0.005
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)
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					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		0.0022 (J)							
9/2/2016				0.0159	<0.005	<0.005			
9/7/2016	<0.005								<0.005
12/7/2016		<0.005		0.0037 (J)					
12/8/2016	<0.005				<0.005	<0.005			<0.005
3/28/2017								0.0005 (J)	
3/29/2017		0.002 (J)		0.015		<0.005			
3/30/2017	0.0008 (J)		<0.005		<0.005		<0.005		
3/31/2017									0.0007 (J)
5/11/2017			<0.005						
5/12/2017							<0.005	0.0005 (J)	
6/15/2017			<0.005				<0.005	<0.005	
7/11/2017			<0.005					0.0008 (J)	
7/12/2017	<0.005	0.0016 (J)		0.0121	<0.005		<0.005		
7/13/2017						<0.005			<0.005
10/24/2017			<0.005					<0.005	
10/25/2017	0.0007 (J)	0.0022 (J)		0.0135	<0.005	<0.005			<0.005
10/26/2017							<0.005		
2/27/2018			<0.005					<0.005	
2/28/2018	0.00073 (J)	0.0028 (J)		0.0177	<0.005	0.001 (J)			0.0011 (J)
3/1/2018							<0.005		
7/11/2018	<0.005	0.0009 (J)	<0.005	0.0055	<0.005				<0.005
7/12/2018						<0.005	<0.005		
11/6/2018			<0.005					<0.005	
11/7/2018	<0.005	<0.005 (J)		0.0054	<0.005	<0.005			<0.005
11/8/2018							<0.005		
8/27/2019	<0.005		0.00099 (J)					<0.005	
8/28/2019		0.00049 (J)							<0.005
8/29/2019				0.0064	<0.005	<0.005	<0.005		
10/15/2019								<0.005	
10/16/2019		0.00046 (J)							
10/17/2019			<0.005	0.0094	<0.005				<0.005
10/18/2019	0.0012 (J)					<0.005	<0.005		
3/2/2020								<0.005	
3/3/2020		<0.005	0.0025 (J)		<0.005	<0.005			
3/4/2020	0.0014 (J)			0.029			<0.005		<0.005
8/11/2020		0.0014 (J)	<0.005						
8/12/2020								<0.005	
8/13/2020				0.014			<0.005		<0.005
8/14/2020	<0.005				<0.005	<0.005			
9/22/2020		0.0017 (J)		0.0063				<0.005	<0.005
9/23/2020			<0.005						
9/24/2020	0.0011 (J)				<0.005	<0.005	<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				<0.005	0.0241				
8/31/2016			0.0035 (J)						
9/1/2016	0.0037 (J)	<0.005							
12/6/2016			0.0032 (J)	<0.005	<0.005				
12/8/2016	0.0032 (J)	<0.005							
3/28/2017			0.0385		0.0243				
3/29/2017				0.001 (J)					
3/30/2017		0.0015 (J)							
3/31/2017	0.0031 (J)								
7/11/2017			0.0203	0.0012 (J)	0.0194				
7/13/2017	0.0018 (J)	0.0012 (J)							
10/24/2017				0.0015 (J)	0.0249				
10/25/2017			0.0119						
10/26/2017	0.0016 (J)	0.0008 (J)							
2/27/2018			0.0094	0.002 (J)	0.0405				
3/1/2018	0.0029 (J)								
3/2/2018		0.0017 (J)							
7/11/2018					0.016				
7/12/2018	0.0023 (J)	0.0015 (J)							
11/6/2018			<0.005	<0.005	0.017				
11/7/2018	<0.005 (J)	<0.005							
8/27/2019			<0.005		0.021				
8/28/2019				<0.005					
8/29/2019	0.00089 (J)	<0.005							
10/16/2019			0.0036 (J)	<0.005					
10/17/2019	0.0013 (J)				0.033				
10/18/2019		0.00079 (J)							
3/2/2020			0.0052						
3/3/2020				0.00096 (J)	0.015				
3/4/2020	0.0012 (J)	0.0006 (J)							
8/11/2020					0.022				
8/12/2020	0.00081 (J)		0.002 (J)	<0.005					
8/13/2020		<0.005						0.002 (J)	
8/17/2020						<0.005	0.0032 (J)		<0.005
9/22/2020			0.0062		0.04				
9/23/2020	<0.005	<0.005		<0.005					
9/24/2020								0.0025 (J)	
9/28/2020							0.0047 (J)		<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	<0.005		
8/17/2020		<0.005	
8/19/2020			0.0013 (J)
9/25/2020	<0.005	<0.005	
9/28/2020			0.0027 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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
12/6/2016				0.029	0.0564			0.0608	
12/7/2016						0.0241	0.0266		0.0469
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
3/2/2020		0.035	0.026		0.071	0.04			
3/3/2020				0.024			0.035	0.064	0.05
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
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					

Time Series

Constituent: Barium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		0.0214							
9/2/2016				0.0097 (J)	0.0252	0.0397			
9/7/2016	0.0694								0.0194
12/7/2016		0.0191		0.0087 (J)					
12/8/2016	0.062				0.0262	0.0408			0.0189
3/28/2017								0.0363	
3/29/2017		0.0209		0.0094 (J)		0.0417			
3/30/2017	0.0615		0.0232		0.0272		0.0184		
3/31/2017									0.0194
5/11/2017			0.0231						
5/12/2017							0.0202	0.0337	
6/15/2017			0.0223				0.0188	0.03	
7/11/2017			0.0201					0.0301	
7/12/2017	0.0532	0.0212		0.0099 (J)	0.0276		0.0186		
7/13/2017						0.0376			0.021
10/24/2017			0.0206					0.0351	
10/25/2017	0.0544	0.021		0.0096 (J)	0.0262	0.0384			0.0196
10/26/2017							0.0176		
2/27/2018			0.0207					0.0364	
2/28/2018	0.0527	0.0213		<0.01	0.027	0.0353			0.0171
3/1/2018							0.0164		
7/11/2018	0.053	0.023	0.022	0.01	0.027				0.02
7/12/2018						0.036	0.022		
11/6/2018			0.021					0.035	
11/7/2018	0.044	0.024		0.011	0.024	0.031			0.017
11/8/2018							0.022		
8/27/2019	0.05		0.023					0.036	
8/28/2019		0.026							0.018
8/29/2019				0.018	0.027	0.031	0.025		
10/15/2019								0.033	
10/16/2019		0.024							
10/17/2019			0.022	0.015	0.027				0.018
10/18/2019	0.045					0.032	0.019		
3/2/2020								0.036	
3/3/2020		0.028	0.022		0.027	0.035			
3/4/2020	0.044			0.017			0.032		0.015
8/11/2020		0.027	0.022						
8/12/2020								0.036	
8/13/2020				0.019			0.027		0.027
8/14/2020	0.046				0.027	0.035			
9/22/2020		0.026		0.011				0.03	0.016
9/23/2020			0.023						
9/24/2020	0.033				0.024	0.031	0.02		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				0.0435	0.0162				
8/31/2016			0.0266 (o)						
9/1/2016	0.0162	0.0157							
12/6/2016			0.0186	0.0431	0.0138				
12/8/2016	0.0247	0.0155							
3/28/2017			0.0187		0.017				
3/29/2017				0.044					
3/30/2017		0.0131							
3/31/2017	0.0189								
7/11/2017			0.0174 (J)	0.0389	0.0154 (J)				
7/13/2017	0.0165	0.014							
10/24/2017				0.0369	0.0148				
10/25/2017			0.0175						
10/26/2017	0.0152	0.0117							
2/27/2018			0.0172	0.0346	0.0148				
3/1/2018	0.0164								
3/2/2018		0.0131							
7/11/2018					0.017				
7/12/2018	0.015	0.013							
11/6/2018			0.016	0.027	0.015				
11/7/2018	0.02	0.014							
8/27/2019			0.017		0.016				
8/28/2019				0.025					
8/29/2019	0.018	0.014							
10/16/2019			0.02	0.027					
10/17/2019	0.019				0.015				
10/18/2019		0.014							
3/2/2020			0.018						
3/3/2020				0.026	0.016				
3/4/2020	0.017	0.014							
8/11/2020					0.016				
8/12/2020	0.016		0.017	0.034					
8/13/2020		0.013						0.11	
8/17/2020						0.026	0.03		0.024
9/22/2020			0.017		0.015				
9/23/2020	0.014	0.013		0.025					
9/24/2020								0.12	
9/28/2020							0.026		0.023

Time Series

Constituent: Barium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	0.056		
8/17/2020		0.022	
8/19/2020			0.018
9/25/2020	0.027	0.021	
9/28/2020			0.017

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0046	<0.003			<0.003	
9/1/2016						0.0002 (J)			
9/6/2016							<0.003		<0.003
12/6/2016				0.0048	<0.003			<0.003	
12/7/2016						0.0002 (J)	<0.003		<0.003
3/28/2017	<0.003	<0.003	9E-05 (J)						
3/29/2017				0.0048	<0.003	0.0002 (J)		<0.003	
3/30/2017							7E-05 (J)		<0.003
5/11/2017	<0.003								
5/12/2017			<0.003						
5/15/2017		<0.003							
6/15/2017	<0.003	<0.003							
6/16/2017			0.0001 (J)						
7/11/2017		<0.003	<0.003						
7/12/2017	<0.003			0.0046	<0.003	0.0002 (J)	<0.003	<0.003	<0.003
8/8/2017		<0.003							
10/24/2017	<0.003	<0.003	<0.003	0.0048	<0.003				
10/25/2017						0.0002 (J)		<0.003	<0.003
11/15/2017							<0.003		
2/27/2018		<0.003	<0.003	0.0106	<0.003	<0.003		<0.003	
2/28/2018							<0.003		<0.003
3/8/2018	<0.003								
7/11/2018						0.0002 (J)		<0.003	<0.003
7/12/2018	<0.003								
11/6/2018		<0.003 (J)	<0.003 (J)	0.012	<0.003 (J)				
11/7/2018	<0.003					<0.003 (J)	<0.003 (J)	<0.003	<0.003 (J)
8/27/2019		7.9E-05 (J)	<0.003	0.0092	0.00014 (J)	0.00028 (J)		<0.003	
8/28/2019	<0.003						<0.003		<0.003
9/17/2019						0.00049 (J)			
10/15/2019		<0.003	8.8E-05 (J)	0.01	0.00012 (J)	0.00016 (J)			
10/16/2019	<0.003						<0.003	<0.003	
10/17/2019									<0.003
3/2/2020		9.6E-05 (J)	0.0001 (J)		0.00016 (J)	7.4E-05 (J)			
3/3/2020				0.0085			<0.003	<0.003	<0.003
3/9/2020	<0.003								
8/11/2020		0.00013 (J)	0.00011 (J)	0.0066	0.00011 (J)	0.00024 (J)		<0.003	
8/12/2020							7.8E-05 (J)		
8/13/2020	<0.003								0.00022 (J)
9/22/2020	<0.003	6.8E-05 (J)	6.9E-05 (J)		0.00015 (J)	0.00017 (J)		<0.003	
9/23/2020							6.8E-05 (J)		5.8E-05 (J)
9/24/2020				0.0077					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		0.0019 (J)							
9/2/2016				0.0026 (J)	0.0001 (J)	0.0002 (J)			
9/7/2016	0.0006 (J)								0.0021 (J)
12/7/2016		0.0021 (J)		0.0035					
12/8/2016	0.0005 (J)				0.0001 (J)	0.0001 (J)			0.0023 (J)
3/28/2017								0.0002 (J)	
3/29/2017		0.0017 (J)		0.0026 (J)		0.0002 (J)			
3/30/2017	0.0006 (J)		<0.003		0.0002 (J)		0.0004 (J)		
3/31/2017									0.0025 (J)
5/11/2017			<0.003						
5/12/2017							0.0004 (J)	0.0002 (J)	
6/15/2017			<0.003				0.0004 (J)	0.0001 (J)	
7/11/2017			<0.003					0.0001 (J)	
7/12/2017	0.0005 (J)	0.0018 (J)		0.0025 (J)	0.0001 (J)		0.0004 (J)		
7/13/2017						0.0002 (J)			0.0025 (J)
10/24/2017			<0.003					0.0002 (J)	
10/25/2017	0.0005 (J)	0.0019 (J)		0.0027 (J)	0.0002 (J)	0.0002 (J)			0.0026 (J)
10/26/2017							0.0004 (J)		
2/27/2018			<0.003					<0.003	
2/28/2018	<0.003	<0.003		<0.003	<0.003	<0.003			<0.003
3/1/2018							<0.003		
7/11/2018	0.00058 (J)	0.002 (J)	<0.003	0.0026 (J)	0.00016 (J)				0.0029 (J)
7/12/2018						0.00018 (J)	0.00035 (J)		
11/6/2018			<0.003					<0.003 (J)	
11/7/2018	<0.003	<0.003 (J)		<0.003 (J)	<0.003 (J)	<0.003 (J)			0.0031
11/8/2018							<0.003 (J)		
8/27/2019	0.00066 (J)		<0.003					0.00024 (J)	
8/28/2019		0.0018 (J)							0.0023 (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			<0.003	0.0041	0.00015 (J)				0.0027 (J)
10/18/2019	0.00071 (J)					0.00014 (J)	0.00038 (J)		
3/2/2020								0.00025 (J)	
3/3/2020		0.0021 (J)	<0.003		0.00019 (J)	0.00017 (J)			
3/4/2020	0.00062 (J)			0.0089			0.00077 (J)		0.0029 (J)
8/11/2020		0.002 (J)	<0.003						
8/12/2020								0.00024 (J)	
8/13/2020				0.0063			0.00041 (J)		0.0026 (J)
8/14/2020	0.00064 (J)				0.0002 (J)	0.00016 (J)			
9/22/2020		0.002 (J)		0.0027 (J)				0.00019 (J)	0.0013 (J)
9/23/2020			<0.003						
9/24/2020	0.0006 (J)				0.00018 (J)	0.00017 (J)	0.00045 (J)		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				0.0018 (J)	0.0045				
8/31/2016			0.0054						
9/1/2016	0.0165	0.008							
12/6/2016			0.0064	0.0034	0.005				
12/8/2016	0.0116	0.0086							
3/28/2017			0.0049		0.0052				
3/29/2017				0.0031					
3/30/2017		0.0106							
3/31/2017	0.0112								
7/11/2017			0.005	0.0022 (J)	0.0048				
7/13/2017	0.0098	0.0106							
10/24/2017				0.0042	0.0051				
10/25/2017			0.0069						
10/26/2017	0.0119	0.0078							
2/27/2018			0.0086	0.0047	0.0057				
3/1/2018	0.0146								
3/2/2018		0.0096							
7/11/2018					0.0058				
7/12/2018	0.013	0.0086							
11/6/2018			0.01	<0.003 (J)	0.006				
11/7/2018	0.014	0.0078							
8/27/2019			0.01		0.007				
8/28/2019				0.0021 (J)					
8/29/2019	0.011	0.0081							
10/16/2019			0.0072	0.0019 (J)					
10/17/2019	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	0.01	0.008							
8/11/2020					0.0062				
8/12/2020	0.0068		0.0081	0.0018 (J)					
8/13/2020		0.0071						0.00014 (J)	
8/17/2020						0.0035	0.0013 (J)		0.0014 (J)
9/22/2020			0.0081		0.0049				
9/23/2020	0.0069	0.0072		0.0015 (J)					
9/24/2020								5.3E-05 (J)	
9/28/2020							0.0012 (J)		0.0015 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
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

Time Series

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				3.5	0.914			0.0419 (J)	
9/1/2016						7.64			
9/6/2016							1		1.25
12/6/2016				3.3	1.15			0.0804	
12/7/2016						8.07	0.9		1.56
3/28/2017	0.0612	0.0067 (J)	0.0097 (J)						
3/29/2017				4.3	1.07	8.46		0.103	
3/30/2017							0.898		1.5
5/11/2017	0.0805								
5/12/2017			0.0082 (J)						
5/15/2017		0.0073 (J)							
6/15/2017	0.0725	<0.1							
6/16/2017			0.0085 (J)						
7/11/2017		<0.1	0.0077 (J)						
7/12/2017	0.0735			3.38	1.14	7.55	0.996	0.044	1.49
8/8/2017		<0.1							
10/24/2017	0.077	0.0082 (J)	0.0083 (J)	3.45	1.18				
10/25/2017						9.97		0.0565	1.47
11/15/2017							0.795		
2/27/2018		0.0062 (J)	0.0069 (J)	3.23	1.17	8.03		0.0539	
2/28/2018							0.106		1.58
3/8/2018	0.13 (J)								
7/11/2018						10.2		0.057	1.4
7/12/2018	0.076								
11/6/2018		<0.04 (J)	<0.04 (J)	2.1	1.2				
11/7/2018	0.073					7.7	0.76	0.055	0.8
3/12/2019		0.0073 (J)	0.0068 (J)	0.98	1.2	4.8			
3/13/2019	0.08						0.62	0.047	
3/14/2019									1.6
9/17/2019						6.9			
10/15/2019		<0.1	0.0054 (J)	1.6	1.2	5.9			
10/16/2019	0.059						0.65	0.052	
10/17/2019									1.5
3/2/2020		0.0055 (J)	0.01 (J)		1.6	3.3			
3/3/2020				1.5			0.61	0.15	1.7
3/9/2020	0.08 (J)								
9/22/2020	0.056 (J)	<0.1	<0.1		1.3	4.2		0.086 (J)	
9/23/2020							0.57		1.6
9/24/2020				0.45					

Time Series

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		3.08							
9/2/2016				6.77	4.81	3.99			
9/7/2016	0.683								0.924
12/7/2016		3.34		6.04					
12/8/2016	0.688				3.57	3.1			0.957
3/28/2017								4.01	
3/29/2017		3.96		8.23		4.85			
3/30/2017	0.743		1.56		5.68		4.68		
3/31/2017									0.989
5/11/2017			1.65						
5/12/2017							4.03	3.58	
6/15/2017			1.44				4.11	3.58	
7/11/2017			1.39					3.85	
7/12/2017	0.62	2.82		6.81	5.2		3.74		
7/13/2017						3.85			1.03
10/24/2017			1.18					3.82	
10/25/2017	0.739	3.19		8.94	7.92	3.9			0.982
10/26/2017							4.07		
2/27/2018			1.12					4.06	
2/28/2018	0.627	2.91		6.26	5.89	5.14			0.918
3/1/2018							4.37		
7/11/2018	0.79	3.7	0.82	5.7	8.3				0.83
7/12/2018						3.6	4		
11/6/2018			0.9					4.1	
11/7/2018	1.6	2.6		5	4.9	3.3			0.89
11/8/2018							4.7		
3/12/2019			0.72					4.6	
3/13/2019	0.76	2.6		5.6	6.2				
3/14/2019						4.1	4.7		0.89
10/15/2019								5	
10/16/2019		2.2							
10/17/2019			0.73	5	7				0.94
10/18/2019	0.82					4.2	4.5		
3/2/2020								5.9	
3/3/2020		3.1	0.68		6.8	4.6			
3/4/2020	0.85			3.6			4.8		1
9/22/2020		2.6		4.9				4.3	0.88
9/23/2020			0.57						
9/24/2020	0.88				6.1	4.1	4.6		

Time Series

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-56	B-77	B-82	B-83
8/30/2016				2.63	1.72				
8/31/2016			7.5						
9/1/2016	0.345	0.955							
12/6/2016			5.64	2.72	1.92				
12/8/2016	0.352	0.919							
3/28/2017			6.16		2.01				
3/29/2017				3.04					
3/30/2017		0.925							
3/31/2017	0.312								
7/11/2017			4.61	2.55	1.78				
7/13/2017	0.28	0.972							
10/24/2017				2.29	1.72				
10/25/2017			4						
10/26/2017	0.269	0.746							
2/27/2018			4.29	2.07	1.68				
3/1/2018	0.296								
3/2/2018		0.878							
7/11/2018					1.4				
7/12/2018	0.26	0.82							
11/6/2018			4.2	1.7	1.4				
11/7/2018	0.3	0.74							
3/12/2019			4.3	1.5	1.2				
3/14/2019	0.26	0.72							
10/16/2019			4.3	1.2					
10/17/2019	0.25				1.2				
10/18/2019		0.74							
3/2/2020			5.5						
3/3/2020				1.5	1.1				
3/4/2020	0.24	0.77							
9/22/2020			4.6		0.78				
9/23/2020	0.21	0.65		1					
9/24/2020							0.27		
9/25/2020									0.35
9/28/2020						1.4		1.1	

Time Series

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-93
9/25/2020	1.8	
9/28/2020		3

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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	<0.0025			<0.0025	
9/1/2016						0.0004 (J)			
9/6/2016							<0.0025		<0.0025
12/6/2016				0.0013	<0.0025			<0.0025	
12/7/2016						0.0003 (J)	0.0002 (J)		9E-05 (J)
3/28/2017	<0.0025	<0.0025	<0.0025						
3/29/2017				0.0013	<0.0025	0.0003 (J)		<0.0025	
3/30/2017							8E-05 (J)		9E-05 (J)
5/11/2017	8E-05 (J)								
5/12/2017			<0.0025						
5/15/2017		<0.0025							
6/15/2017	<0.0025	<0.0025							
6/16/2017			<0.0025						
7/11/2017		<0.0025	<0.0025						
7/12/2017	<0.0025			0.0013	<0.0025	0.0004 (J)	<0.0025	<0.0025	<0.0025
8/8/2017		<0.0025							
10/24/2017	<0.0025	<0.0025	<0.0025	0.0014	<0.0025				
10/25/2017						0.0004 (J)		<0.0025	<0.0025
11/15/2017							<0.0025		
2/27/2018		<0.0025	<0.0025	0.001	<0.0025	<0.0025		<0.0025	
2/28/2018							<0.0025		<0.0025
3/8/2018	<0.0025								
7/11/2018						0.00033 (J)		<0.0025	<0.0025
7/12/2018	0.00013 (J)								
11/6/2018		<0.0025	<0.0025	0.0012	<0.0025				
11/7/2018	<0.0025					<0.001 (J)	<0.0025	<0.0025	<0.001 (J)
8/27/2019		<0.0025	<0.0025	0.00077 (J)	0.00012 (J)	0.00037 (J)		<0.0025	
8/28/2019	<0.0025						<0.0025		<0.0025
9/17/2019						0.00035 (J)			
10/15/2019		<0.0025	<0.0025	0.00095 (J)	<0.0025	0.00025 (J)			
10/16/2019	<0.0025						<0.0025	<0.0025	
10/17/2019									<0.0025
3/2/2020		0.00041 (J)	<0.0025		<0.0025	<0.0025			
3/3/2020				0.00095 (J)			<0.0025	<0.0025	0.00012 (J)
3/9/2020	<0.0025								
8/11/2020		<0.0025	<0.0025	0.00071 (J)	<0.0025	0.00038 (J)		<0.0025	
8/12/2020							<0.0025		
8/13/2020	<0.0025								0.00013 (J)
9/22/2020	<0.0025	<0.0025	<0.0025		0.00016 (J)	0.00017 (J)		<0.0025	
9/23/2020							<0.0025		<0.0025
9/24/2020				0.00055 (J)					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		0.0004 (J)							
9/2/2016				0.0023	0.0006 (J)	0.0003 (J)			
9/7/2016	0.0003 (J)								0.0007 (J)
12/7/2016		0.0004 (J)		0.0023					
12/8/2016	0.0003 (J)				0.0006 (J)	0.0004 (J)			0.0003 (J)
3/28/2017								0.0006 (J)	
3/29/2017		0.0004 (J)		0.0021		0.0004 (J)			
3/30/2017	0.0003 (J)		0.0005 (J)		0.0008 (J)		0.0002 (J)		
3/31/2017									0.0009 (J)
5/11/2017			0.0004 (J)						
5/12/2017							0.0003 (J)	0.0006 (J)	
6/15/2017			0.0003 (J)				0.0002 (J)	0.0005 (J)	
7/11/2017			0.0003 (J)					0.0006 (J)	
7/12/2017	0.0002 (J)	0.0004 (J)		0.0021	0.0006 (J)		0.0002 (J)		
7/13/2017						0.0005 (J)			0.0008 (J)
10/24/2017			0.0003 (J)					0.0007 (J)	
10/25/2017	0.0002 (J)	0.0004 (J)		0.002	0.0005 (J)	0.0007 (J)			0.0005 (J)
10/26/2017							0.0003 (J)		
2/27/2018			<0.0025					<0.0025	
2/28/2018	<0.0025	<0.0025		0.0018	<0.0025	<0.0025			<0.0025
3/1/2018							<0.0025		
7/11/2018	0.00029 (J)	0.00039 (J)	0.00018 (J)	0.0018	0.00054 (J)				0.0024
7/12/2018						0.00091 (J)	0.00028 (J)		
11/6/2018			<0.001 (J)					<0.001 (J)	
11/7/2018	<0.0025	<0.001 (J)		0.0018	<0.001 (J)	<0.001 (J)			<0.001 (J)
11/8/2018							<0.001 (J)		
8/27/2019	0.00033 (J)		0.00012 (J)					0.00072 (J)	
8/28/2019		0.00033 (J)							0.0015 (J)
8/29/2019				0.002 (J)	0.00087 (J)	0.00053 (J)	0.00022 (J)		
10/15/2019								0.00077 (J)	
10/16/2019		0.00034 (J)							
10/17/2019			0.00013 (J)	0.0017 (J)	0.0006 (J)				0.00058 (J)
10/18/2019	0.00029 (J)					0.00056 (J)	0.00022 (J)		
3/2/2020								0.00088 (J)	
3/3/2020		0.00037 (J)	0.00014 (J)		0.00063 (J)	0.00061 (J)			
3/4/2020	0.00028 (J)			0.0026			0.00024 (J)		0.00037 (J)
8/11/2020		0.0003 (J)	<0.0025						
8/12/2020								0.0008 (J)	
8/13/2020				0.0021 (J)			0.00027 (J)		0.0013 (J)
8/14/2020	0.00029 (J)				0.00054 (J)	0.00057 (J)			
9/22/2020		0.00036 (J)		0.0014 (J)				0.00065 (J)	0.0007 (J)
9/23/2020			0.00013 (J)						
9/24/2020	0.00024 (J)				0.00073 (J)	0.00058 (J)	0.00018 (J)		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				0.0019	0.0004 (J)				
8/31/2016			0.0002 (J)						
9/1/2016	0.0017	0.0013							
12/6/2016			0.0004 (J)	0.0025	0.0005 (J)				
12/8/2016	0.0002 (J)	0.0042							
3/28/2017			0.0002 (J)		0.0005 (J)				
3/29/2017				0.0024					
3/30/2017		0.0089							
3/31/2017	0.002								
7/11/2017			0.0003 (J)	0.0021	0.0005 (J)				
7/13/2017	0.0017	0.0033							
10/24/2017				0.0029	0.0006 (J)				
10/25/2017			0.0006 (J)						
10/26/2017	0.0015	0.0032							
2/27/2018			<0.0025	0.0029	<0.0025				
3/1/2018	0.0025								
3/2/2018		0.0049							
7/11/2018					0.00067 (J)				
7/12/2018	0.0021	0.0032							
11/6/2018			<0.001 (J)	0.0027	<0.001 (J)				
11/7/2018	0.0016	0.0031							
8/27/2019			0.00082 (J)		0.00071 (J)				
8/28/2019				0.0022 (J)					
8/29/2019	0.0021 (J)	0.003							
10/16/2019			0.00069 (J)	0.0022 (J)					
10/17/2019	0.0033				0.00064 (J)				
10/18/2019		0.0028							
3/2/2020			0.00089 (J)						
3/3/2020				0.002 (J)	0.00059 (J)				
3/4/2020	0.0017 (J)	0.0036							
8/11/2020					0.00059 (J)				
8/12/2020	0.001 (J)		0.00079 (J)	0.0021 (J)					
8/13/2020		0.0028						<0.0025	
8/17/2020						0.00077 (J)	0.00029 (J)		0.00058 (J)
9/22/2020			0.00072 (J)		0.00059 (J)				
9/23/2020	0.0013 (J)	0.0025		0.0018 (J)					
9/24/2020								<0.0025	
9/28/2020							0.00024 (J)		0.00066 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
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)

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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
12/6/2016				74.2	48.3			10.4	
12/7/2016						82.1	39.8		34.7
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
3/2/2020		5.3	5.8		65.8	46.5			
3/3/2020				63.6			49.3	14	37.8
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					

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		65.6							
9/2/2016				96.3	70.2	61.6			
9/7/2016	8.61								43.6
12/7/2016		68.3		91.9					
12/8/2016	7.92				70.1	60.1			45.8
3/28/2017								229	
3/29/2017		68		95.7		64.7			
3/30/2017	9.56		103		72.5		68.1		
3/31/2017									48.3
5/11/2017			102						
5/12/2017							71.1	233	
6/15/2017			96.2				65.9	224	
7/11/2017			98.4					249	
7/12/2017	10.4	70		100	80.4		70		
7/13/2017						67.2			52.3
10/24/2017			86					232	
10/25/2017	10.9	77		97.3	75.6	66.8			50.9
10/26/2017							67.2		
2/27/2018			66.7					245	
2/28/2018	<25	72		86.3	73.2	62.3			45.1
3/1/2018							66.5		
7/11/2018	13 (J)	82.7	55	92.4	82.3				47.8
7/12/2018						71	72		
11/6/2018			54.5					284	
11/7/2018	37	81.7		85.9	78.5	60.9			45.5
11/8/2018							73.5		
3/12/2019			52.2					295	
3/13/2019	11.9 (J)	76.9		86.4	79.9				
3/14/2019						64.8	73.2		43.5
10/15/2019								276	
10/16/2019		85.7							
10/17/2019			47.2	86.9	79.8				44.1
10/18/2019	12.9					61.7	67.7		
3/2/2020								320	
3/3/2020		86.8	48.4		87.4	68.7			
3/4/2020	15.8			103			69.8		48.8
9/22/2020		103		79.2				263	43.8
9/23/2020			44.4						
9/24/2020	12.7				80	62.6	73.7		

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-56	B-77	B-82	B-83
8/30/2016				82.7	64.9				
8/31/2016			82.6						
9/1/2016	69.3	95.1							
12/6/2016			73.9	76.8	59.3				
12/8/2016	71.1	105							
3/28/2017			89.1		71.6				
3/29/2017				90.5					
3/30/2017		98.6							
3/31/2017	62.6								
7/11/2017			84.6	91.1	73.7				
7/13/2017	52.5	102							
10/24/2017				78.1	92.5				
10/25/2017			95.6						
10/26/2017	46.7	94							
2/27/2018			108	64.2	73.1				
3/1/2018	44.2								
3/2/2018		86.6							
7/11/2018					88.5				
7/12/2018	41.6	89.1							
11/6/2018			124	57	81.1				
11/7/2018	38.6	88							
3/12/2019			110	54.3	78.1				
3/14/2019	36.6	74.6							
10/16/2019			109	47.3					
10/17/2019	36.2				75.6				
10/18/2019		72.7							
3/2/2020			116						
3/3/2020				46	59.5				
3/4/2020	36	79.7							
9/22/2020			99.2		54.7				
9/23/2020	22.3	72.2		39.3					
9/24/2020							17.9		
9/25/2020									39.8
9/28/2020						15.1		26.5	

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-93
9/25/2020	79.8	
9/28/2020		110

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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
12/6/2016				10	11			3.1	
12/7/2016						20 (o)	14		20
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
3/2/2020		1.9	3		15	8.9			
3/3/2020				8.4			9.4	4.1	22.7
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					

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		41							
9/2/2016				15	25	30			
9/7/2016	17								33
12/7/2016		41		16					
12/8/2016	19				24	26			32
3/28/2017								29	
3/29/2017		42		17		30			
3/30/2017	20		4.8		24		17		
3/31/2017									33
5/11/2017			4.4						
5/12/2017							17	29	
6/15/2017			4.8				16	28	
7/11/2017			4.6					28	
7/12/2017	18	41		18	23		16		
7/13/2017						29			33
10/24/2017			4.4					28	
10/25/2017	19	41		20	23	29			32
10/26/2017							17		
11/15/2017								27	
2/27/2018			4.1					24.6	
2/28/2018	17	36.4		18.6	19.9	23.4			29
3/1/2018							14.8		
7/11/2018	19.5	38.2	3.3	20.4	20.9				29.3
7/12/2018						26.1	15.2		
11/6/2018			3.7					24.8	
11/7/2018	21.4	38.8		21.5	20.5	25.8			28.6
11/8/2018							14.6		
3/12/2019			3.1					24.2	
3/13/2019	19.9	40.1		24.8	21.3				
3/14/2019						26.3	15.2		24.8
10/15/2019								20.9	
10/16/2019		33.2							
10/17/2019			2.8	24.9	20.1				25.8
10/18/2019	22					23.4	14.4		
3/2/2020								18.7	
3/3/2020		30.9	2.3		19.7	21.8			
3/4/2020	19.6			27.8			13.9		23.6
9/22/2020		27.6		25.8				17	22.1
9/23/2020			2.1						
9/24/2020	22.7				20	21.5	13.7		

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-56	B-77	B-82	B-83
8/30/2016				9.7	6				
8/31/2016			8.6						
9/1/2016	12	18							
12/6/2016			8	9.8	6.2				
12/8/2016	12	17							
3/28/2017			9.5		6.6				
3/29/2017				9.9					
3/30/2017		16							
3/31/2017	9.1								
7/11/2017			9	9.7	6.9				
7/13/2017	5.7	15							
10/24/2017				9.9	6.7				
10/25/2017			9.4						
10/26/2017	6.6	14							
2/27/2018			9.7	9.5	8.2				
3/1/2018	10.7								
3/2/2018		12.8							
7/11/2018					10.5				
7/12/2018	9.5	11.7							
11/6/2018			10.2	10.5	8.7				
11/7/2018	8.6	11.4							
3/12/2019			10.6	10.7	8.5				
3/14/2019	6.6	10.2							
10/16/2019			11.6	10.4					
10/17/2019	7				10				
10/18/2019		9.6							
3/2/2020			10.5						
3/3/2020				9.6	6.6				
3/4/2020	4.4	9.1							
9/22/2020			10.5		8				
9/23/2020	3.3	8		9.1					
9/24/2020							5.3		
9/25/2020									3
9/28/2020						8.7		9.9	

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-93
9/25/2020	10	
9/28/2020		10.8

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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							<0.01		<0.01
12/6/2016				<0.01	<0.01			<0.01	
12/7/2016						<0.01	<0.01		<0.01
3/28/2017	<0.01	0.0008 (J)	0.0023 (J)						
3/29/2017				0.0008 (J)	<0.01	<0.01		<0.01	
3/30/2017							0.0009 (J)		0.0005 (J)
5/11/2017	<0.01								
5/12/2017			0.0004 (J)						
5/15/2017		0.0006 (J)							
6/15/2017	<0.01	0.0006 (J)							
6/16/2017			0.0005 (J)						
7/11/2017		0.0005 (J)	<0.01						
7/12/2017	<0.01			0.0006 (J)	<0.01	<0.01	<0.01	<0.01	<0.01
8/8/2017		0.0005 (J)							
10/24/2017	<0.01	0.0005 (J)	<0.01	0.0007 (J)	<0.01				
10/25/2017						<0.01		<0.01	<0.01
11/15/2017							<0.01		
2/27/2018		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
2/28/2018							<0.01		<0.01
3/8/2018	<0.01								
7/11/2018						<0.01		<0.01	<0.01
7/12/2018	<0.01								
11/6/2018		<0.01	<0.01	<0.01	<0.01				
11/7/2018	<0.01					<0.01	<0.01	<0.01	<0.01 (J)
8/27/2019		0.00071 (J)	0.0018 (J)	0.00083 (J)	0.0006 (J)	<0.01	<0.01	<0.01	
8/28/2019	<0.01						<0.01		<0.01
9/17/2019						<0.01			
10/15/2019		0.034 (O)	0.0025 (J)	0.00078 (J)	<0.01	<0.01			
10/16/2019	<0.01						<0.01	<0.01	
10/17/2019									0.00058 (J)
3/2/2020		0.0013 (J)	0.00045 (J)		0.0006 (J)	<0.01			
3/3/2020				0.00092 (J)			0.00066 (J)	<0.01	0.00046 (J)
3/9/2020	<0.01								
8/11/2020		0.0016 (J)	0.0006 (J)	0.00097 (J)	0.00061 (J)	0.00094 (J)		<0.01	
8/12/2020							0.00074 (J)		
8/13/2020	<0.01								0.0048 (J)
9/22/2020	<0.01	0.00089 (J)	<0.01		0.00058 (J)	<0.01		<0.01	
9/23/2020							0.00059 (J)		<0.01
9/24/2020				0.001 (J)					

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		0.0031 (J)							
9/2/2016				0.0017 (J)	<0.01	0.0012 (J)			
9/7/2016	0.0026 (J)								<0.01
12/7/2016		<0.01		<0.01					
12/8/2016	0.0025 (J)				<0.01	<0.01			<0.01
3/28/2017								0.0005 (J)	
3/29/2017		0.0025 (J)		0.0016 (J)		<0.01			
3/30/2017	0.0026 (J)		0.0005 (J)		0.0005 (J)		0.0012 (J)		
3/31/2017									0.001 (J)
5/11/2017			0.0005 (J)						
5/12/2017							0.0004 (J)	<0.01	
6/15/2017			<0.01				0.0005 (J)	<0.01	
7/11/2017			<0.01					<0.01	
7/12/2017	0.0022 (J)	0.0023 (J)		<0.01	0.0006 (J)		0.0007 (J)		
7/13/2017						<0.01			0.0008 (J)
10/24/2017			<0.01					<0.01	
10/25/2017	0.0024 (J)	0.0024 (J)		0.0015 (J)	<0.01	<0.01			0.0005 (J)
10/26/2017							0.0007 (J)		
2/27/2018			<0.01					<0.01	
2/28/2018	<0.01	<0.01		<0.01	<0.01	<0.01			<0.01
3/1/2018							<0.01		
7/11/2018	0.0024 (J)	0.0022 (J)	<0.01	<0.01	<0.01				<0.01
7/12/2018						<0.01	<0.01		
11/6/2018			<0.01					<0.01	
11/7/2018	<0.01	<0.01 (J)		<0.01 (J)	<0.01	<0.01			<0.01
11/8/2018							<0.01		
8/27/2019	0.0031 (J)		0.0004 (J)					<0.01	
8/28/2019		0.0028 (J)							<0.01
8/29/2019				0.0017 (J)	0.00041 (J)	<0.01	<0.01		
10/15/2019								<0.01	
10/16/2019		0.0024 (J)							
10/17/2019			0.00046 (J)	0.0015 (J)	<0.01				0.00041 (J)
10/18/2019	0.0027 (J)					<0.01	0.00041 (J)		
3/2/2020								<0.01	
3/3/2020		0.0028 (J)	<0.01		0.00048 (J)	<0.01			
3/4/2020	0.0035 (J)			0.0032 (J)			0.00081 (J)		0.00042 (J)
8/11/2020		0.0024 (J)	0.00067 (J)						
8/12/2020								<0.01	
8/13/2020				0.0023 (J)			0.00085 (J)		0.0021 (J)
8/14/2020	0.0033 (J)				<0.01	<0.01			
9/22/2020		0.003 (J)		0.0013 (J)				<0.01	0.001 (J)
9/23/2020			<0.01						
9/24/2020	0.0029 (J)				0.00096 (J)	<0.01	0.00084 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				<0.01	<0.01				
8/31/2016			<0.01						
9/1/2016	<0.01	<0.01							
12/6/2016			<0.01	<0.01	<0.01				
12/8/2016	<0.01	<0.01							
3/28/2017			<0.01		0.001 (J)				
3/29/2017				0.0004 (J)					
3/30/2017		<0.01							
3/31/2017	0.0007 (J)								
7/11/2017			<0.01	<0.01	<0.01				
7/13/2017	<0.01	0.0007 (J)							
10/24/2017				<0.01	<0.01				
10/25/2017			<0.01						
10/26/2017	<0.01	<0.01							
2/27/2018			<0.01	<0.01	<0.01				
3/1/2018	<0.01								
3/2/2018		<0.01							
7/11/2018					<0.01				
7/12/2018	<0.01	<0.01							
11/6/2018			<0.01	<0.01	<0.01				
11/7/2018	<0.01	<0.01							
8/27/2019			<0.01		0.00048 (J)				
8/28/2019				<0.01					
8/29/2019	<0.01	<0.01							
10/16/2019			<0.01	0.0013 (J)					
10/17/2019	<0.01				0.00051 (J)				
10/18/2019		<0.01							
3/2/2020			0.00045 (J)						
3/3/2020				0.00061 (J)	0.0057 (J)				
3/4/2020	<0.01	0.0004 (J)							
8/11/2020					0.00061 (J)				
8/12/2020	<0.01		<0.01	0.0028 (J)					
8/13/2020		<0.01						0.0021 (J)	
8/17/2020						<0.01	0.0014 (J)		<0.01
9/22/2020			<0.01		<0.01				
9/23/2020	<0.01	<0.01		0.00086 (J)					
9/24/2020								0.0007 (J)	
9/28/2020							<0.01		<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	0.005 (J)		
8/17/2020		0.0014 (J)	
8/19/2020			0.00057 (J)
9/25/2020	0.0051 (J)	0.00085 (J)	
9/28/2020			0.00066 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
 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)
12/6/2016				0.2	0.0006 (J)			<0.005	
12/7/2016						0.0026 (J)	<0.005		0.0028 (J)
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)
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)
3/9/2020	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)
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					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		0.0553							
9/2/2016				0.497	0.0085 (J)	0.0102			
9/7/2016	0.0247								0.0695
12/7/2016		0.0561		0.614					
12/8/2016	0.029				0.0095 (J)	0.0079 (J)			0.0652
3/28/2017								0.0018 (J)	
3/29/2017		0.0534		0.443		0.0097 (J)			
3/30/2017	0.0283		0.0255		0.0076 (J)		<0.005		
3/31/2017									0.0524
5/11/2017			0.0284						
5/12/2017							<0.005	0.0015 (J)	
6/15/2017			0.0238				0.0003 (J)	0.0015 (J)	
7/11/2017			0.0238					0.0015 (J)	
7/12/2017	0.023	0.0489		0.538	0.0092 (J)		<0.005		
7/13/2017						0.0106			0.0481
10/24/2017			0.0292					0.0017 (J)	
10/25/2017	0.0259	0.0514		0.432	0.0092 (J)	0.0094 (J)			0.0435
10/26/2017							<0.005		
2/27/2018			0.042					<0.005	
2/28/2018	0.02	0.0511		0.459	<0.005	<0.005			0.0167
3/1/2018							<0.005		
7/11/2018	0.025	0.051	0.02	0.47	0.0097 (J)				0.019
7/12/2018						0.011	<0.005		
11/6/2018			0.024					<0.01 (J)	
11/7/2018	<0.01 (J)	0.048		0.42	<0.01 (J)	<0.01 (J)			0.02
11/8/2018							<0.01 (J)		
8/27/2019	0.031		0.0088					0.0018 (J)	
8/28/2019		0.048							0.029
8/29/2019				0.66	0.01	0.0094	0.00036 (J)		
10/15/2019								0.0018 (J)	
10/16/2019		0.046							
10/17/2019			0.0084	0.57	0.01				0.03
10/18/2019	0.023					0.0084	<0.005		
3/2/2020								0.0021 (J)	
3/3/2020		0.054	0.0073		0.01	0.0098			
3/4/2020	0.023			0.84			0.00043 (J)		0.014
8/11/2020		0.049	0.0064						
8/12/2020								0.0018 (J)	
8/13/2020				0.73			0.00048 (J)		0.025
8/14/2020	0.026				0.0098	0.0087			
9/22/2020		0.051		0.47				0.0014 (J)	0.014
9/23/2020			0.0062						
9/24/2020	0.028				0.01	0.01	<0.005		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				0.0568	0.0896				
8/31/2016			0.055						
9/1/2016	0.536	0.539							
12/6/2016			0.0432	0.0873	0.122				
12/8/2016	0.381	0.575							
3/28/2017			0.04		0.124				
3/29/2017				0.0902					
3/30/2017		0.573							
3/31/2017	0.354								
7/11/2017			0.0351 (J)	0.0601	0.136				
7/13/2017	0.396	0.531							
10/24/2017				0.123	0.151				
10/25/2017			0.0209						
10/26/2017	0.383	0.482							
2/27/2018			0.024	0.126	0.163				
3/1/2018	0.401								
3/2/2018		0.49							
7/11/2018					0.18				
7/12/2018	0.36	0.46							
11/6/2018			0.019	0.077	0.2				
11/7/2018	0.35	0.48							
8/27/2019			0.02		0.24				
8/28/2019				0.051					
8/29/2019	0.28	0.42							
10/16/2019			0.022	0.054					
10/17/2019	0.26				0.21				
10/18/2019		0.41							
3/2/2020			0.028						
3/3/2020				0.044	0.2				
3/4/2020	0.28	0.42							
8/11/2020					0.22				
8/12/2020	0.21		0.021	0.053					
8/13/2020		0.35						0.0011 (J)	
8/17/2020						0.061	0.042		0.0028 (J)
9/22/2020			0.02		0.16				
9/23/2020	0.17	0.37		0.04					
9/24/2020								0.0004 (J)	
9/28/2020							0.042		0.0053

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	0.021		
8/17/2020		0.0031 (J)	
8/19/2020			0.068
9/25/2020	0.0073	0.0015 (J)	
9/28/2020			0.064

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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)
12/6/2016				1.31	0.409 (U)			0.659 (U)	
12/7/2016						2.66	1.76		1.73
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)
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)
3/9/2020	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
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					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		1.07 (U)							
9/2/2016				1.48	0.908 (U)	1.54			
9/7/2016	1.17								0.876 (U)
12/7/2016		0.903 (U)		1.26 (U)					
12/8/2016	1.65				1.03 (U)	0.505 (U)			0.955
3/28/2017								1.36	
3/29/2017		0.302 (U)		0.373 (U)		0.715 (U)			
3/30/2017	0.865 (U)		0.737 (U)		0.884 (U)		0.297 (U)		
3/31/2017									0.102 (U)
5/11/2017			0.892 (U)						
5/12/2017							0.693 (U)	1.15	
6/15/2017			0.979 (U)				0.435 (U)	0.765 (U)	
7/11/2017			0.871 (U)					1.13	
7/12/2017	0.362 (U)	0.283 (U)		0.91 (U)	1.22		0.703 (U)		
7/13/2017						1.14			1.08 (U)
10/24/2017			1.19					1.24	
10/25/2017	0.401 (U)	0.927 (U)		0.853 (U)	1.07 (U)	1.6			1.46
10/26/2017							0.984 (U)		
2/27/2018			0.863 (U)					1.82	
2/28/2018	1.1 (U)	0.813 (U)		0.727 (U)	1.45	0.918 (U)			0.882 (U)
3/1/2018							0.743 (U)		
7/10/2018								1.37	
7/11/2018	0.64 (U)	0.751 (U)	0.663 (U)	1.3	1.59				0.924 (U)
7/12/2018						0.981 (U)	0.918 (U)		
11/6/2018			0.664					1.2	
11/7/2018	0.795 (U)	1.02		0.746 (U)	1.16	0.832 (U)			0.654 (U)
11/8/2018							1.47		
8/27/2019	1.12		1.6					1.79	
8/28/2019		0.661 (U)							0.883 (U)
8/29/2019				0.996 (U)	0.582 (U)	1.87	2.21		
10/15/2019								2.11 (U)	
10/16/2019		1.79							
10/17/2019			1.74	2	0.427 (U)				1.38
10/18/2019	0.89 (U)					1.1 (U)	1.32		
3/2/2020								1.99	
3/3/2020		0.383 (U)	1.23		0.567 (U)	0.517 (U)			
3/4/2020	0.493 (U)			1.67			1.39		0.722 (U)
8/11/2020		0.723 (U)	1.37						
8/12/2020								1.95	
8/13/2020				1.77			1.48 (U)		1.23 (U)
8/14/2020	0.804 (U)				0.602 (U)	1.83			
9/22/2020		0.96 (U)		1.61 (U)				1.43 (U)	1.03 (U)
9/23/2020			1.96 (U)						
9/24/2020	0.369 (U)				0.396 (U)	1.02 (U)	1.49		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				0.919 (U)	1.33				
8/31/2016			2.49						
9/1/2016	4.47	2.37							
12/6/2016			0.348 (U)	0.407 (U)	0.828 (U)				
12/8/2016	2.88	2.87							
3/28/2017			0.693 (U)		1.06				
3/29/2017				0.28 (U)					
3/30/2017		1.71							
3/31/2017	1.14								
7/11/2017			1.38	0.209 (U)	0.62 (U)				
7/13/2017	2.37	1.78							
10/24/2017				0.615 (U)	1.21				
10/25/2017			2.06						
10/26/2017	2.88	3.74							
2/27/2018			1.97	1.05 (U)	1.79				
3/1/2018	2.21								
3/2/2018		2.26							
7/10/2018			1.03 (U)	0.363 (U)					
7/11/2018					1.81				
7/12/2018	1.73	1.81							
11/6/2018			1.13	0.577 (U)	1.13				
11/7/2018	1.72	1.94							
8/27/2019			1.81		1.55				
8/28/2019				0.815 (U)					
8/29/2019	3.05	2.37							
10/16/2019			1.63	0.999 (U)					
10/17/2019	2.58				0.702 (U)				
10/18/2019		1.42							
3/2/2020			2.28						
3/3/2020				0.481 (U)	1.37				
3/4/2020	1.68	1.31							
8/11/2020					0.819 (U)				
8/12/2020	2.56		1.13	0.721 (U)					
8/13/2020		1.74						2.17	
8/17/2020						1.78 (U)	1.15 (U)		0.662 (U)
9/22/2020			1.4 (U)		1.15 (U)				
9/23/2020	2.3 (U)	1.51 (U)		0.8 (U)					
9/24/2020								0.761 (U)	
9/28/2020							1.39		0.747 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	0.95 (U)		
8/17/2020		2.47	
8/19/2020			1.19 (U)
9/25/2020	0.0359 (U)	0.925 (U)	
9/28/2020			1.54

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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)
12/6/2016				1.3	0.06 (J)			0.1 (J)	
12/7/2016						0.16 (J)	0.3		0.11 (J)
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)
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
3/9/2020	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
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					

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		0.75							
9/2/2016				0.66	0.07 (J)	0.3			
9/7/2016	0.32								0.02 (J)
12/7/2016		0.37		0.66					
12/8/2016	0.31				0.14 (J)	0.12 (J)			0.06 (J)
3/28/2017								0.17 (J)	
3/29/2017		0.35		0.34		0.11 (J)			
3/30/2017	0.1 (J)		0.06 (J)		<0.1		0.12 (J)		
3/31/2017									<0.1
5/11/2017			0.06 (J)						
5/12/2017							0.36	<0.1	
6/15/2017			0.07 (J)				0.21 (J)	0.02 (J)	
7/11/2017			0.04 (J)					0.02 (J)	
7/12/2017	0.27 (J)	0.34		0.41	0.04 (J)		0.22 (J)		
7/13/2017						0.09 (J)			<0.1
10/24/2017			0.43					<0.1	
10/25/2017	0.49	0.9		0.68	0.34	0.25 (J)			<0.1
10/26/2017							0.66		
11/15/2017								0.79	
2/27/2018			0.28					<0.1	
2/28/2018	0.54	1.2		0.76	<0.1	<0.1			<0.1
3/1/2018							0.18		
7/11/2018	0.15 (J)	0.37	0.6	1.3	<0.1				<0.1
7/12/2018						0.13 (J)	0.25 (J)		
11/6/2018			<0.1					<0.1	
11/7/2018	<0.3 (J)	<0.3 (J)		<0.3 (J)	<0.1	<0.1			<0.1
11/8/2018							<0.3 (J)		
3/12/2019			0.052 (J)					0.082 (J)	
3/13/2019	0.084 (J)	0.22 (J)		0.45	0.043 (J)				
3/14/2019						0.042 (J)	0.092 (J)		<0.1
8/27/2019	0.24 (J)		<0.1					<0.1	
8/28/2019		0.2							<0.1
8/29/2019				0.78	0.079 (J)	0.054 (J)	0.095 (J)		
10/15/2019								<0.1	
10/16/2019		0.23 (J)							
10/17/2019			0.042 (J)	0.26 (J)	<0.1				<0.1
10/18/2019	0.086 (J)					<0.1	0.079 (J)		
3/2/2020								<0.1	
3/3/2020		0.056 (J)	<0.1		<0.1	<0.1			
3/4/2020	<0.1			1.5			0.075 (J)		<0.1
8/11/2020		0.2	<0.1						
8/12/2020								<0.1	
8/13/2020				0.9			0.1		<0.1
8/14/2020	0.069 (J)				<0.1	<0.1			
9/22/2020		0.084 (J)		0.15				<0.1	<0.1
9/23/2020			<0.1						
9/24/2020	0.056 (J)				<0.1	<0.1	0.075 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				0.39	0.78				
8/31/2016			1						
9/1/2016	1.8	1.5							
12/6/2016			0.76	0.47	1.1				
12/8/2016	1.1	1.6							
3/28/2017			1.2		1.1				
3/29/2017				0.51					
3/30/2017		0.86							
3/31/2017	0.88								
7/11/2017			0.7	0.2 (J)	1.1				
7/13/2017	0.84	1.1							
10/24/2017				0.82	1.7				
10/25/2017			1.4						
10/26/2017	1	1.7							
2/27/2018			1.3	0.59	1.2				
3/1/2018	1.4								
3/2/2018		1.1							
7/11/2018					1.3				
7/12/2018	0.96	0.65							
11/6/2018			<0.3 (J)	0.35	1.1				
11/7/2018	0.74	0.63							
3/12/2019			0.31	0.35	0.97				
3/14/2019	1.6	1.4							
8/27/2019			0.32		0.68				
8/28/2019				0.098 (J)					
8/29/2019	0.52	0.78							
10/16/2019			0.32	0.14 (J)					
10/17/2019	0.46				1.2				
10/18/2019		0.46							
3/2/2020			0.33						
3/3/2020				<0.1	1.4				
3/4/2020	0.74	0.7							
8/11/2020					1.3				
8/12/2020	0.22		0.13	0.056 (J)					
8/13/2020		0.47						<0.1	
8/17/2020						0.077 (J)	0.19		<0.1
9/22/2020			0.12		0.99				
9/23/2020	0.11	0.32		<0.1					
9/24/2020								<0.1	
9/28/2020							0.098 (J)		<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	0.05 (J)		
8/17/2020		<0.1	
8/19/2020			0.32
9/25/2020	<0.1	<0.1	
9/28/2020			0.3

Time Series

Constituent: Lead (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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
12/6/2016				<0.005	<0.005			<0.005	
12/7/2016						<0.005	<0.005		0.0002 (J)
3/28/2017	<0.005	9E-05 (J)	<0.005						
3/29/2017				<0.005	<0.005	<0.005		<0.005	
3/30/2017							0.0002 (J)		0.0001 (J)
5/11/2017	<0.005								
5/12/2017			8E-05 (J)						
5/15/2017		0.0001 (J)							
6/15/2017	<0.005	0.0002 (J)							
6/16/2017			<0.005						
7/11/2017		<0.005	<0.005						
7/12/2017	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	0.0001 (J)
8/8/2017		7E-05 (J)							
10/24/2017	<0.005	<0.005	<0.005	<0.005	<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	<0.005
8/27/2019		7.8E-05 (J)	<0.005	0.00024 (J)	0.00012 (J)	0.0001 (J)		<0.005	
8/28/2019	<0.005						<0.005		5.9E-05 (J)
9/17/2019						<0.005			
10/15/2019		<0.005	<0.005	0.00014 (J)	7.6E-05 (J)	<0.005			
10/16/2019	<0.005						<0.005	<0.005	
10/17/2019									<0.005
3/2/2020		7.4E-05 (J)	<0.005		0.00015 (J)	<0.005			
3/3/2020				0.00011 (J)			<0.005	<0.005	<0.005
3/9/2020	<0.005								
8/11/2020		0.0003 (J)	<0.005	7E-05 (J)	5.3E-05 (J)	<0.005		9.6E-05 (J)	
8/12/2020							<0.005		
8/13/2020	<0.005								0.0012 (J)
9/22/2020	<0.005	7.8E-05 (J)	<0.005		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)					

Time Series

Constituent: Lead (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		<0.005							
9/2/2016				<0.005	0.0002 (J)	<0.005			
9/7/2016	<0.005								0.0002 (J)
12/7/2016		<0.005		<0.005					
12/8/2016	<0.005				<0.005	<0.005			0.0002 (J)
3/28/2017								0.0002 (J)	
3/29/2017		<0.005		<0.005		<0.005			
3/30/2017	0.0001 (J)		0.0001 (J)		0.0004 (J)		<0.005		
3/31/2017									0.0004 (J)
5/11/2017			9E-05 (J)						
5/12/2017							<0.005	<0.005	
6/15/2017			0.0001 (J)				<0.005	<0.005	
7/11/2017			<0.005					<0.005	
7/12/2017	<0.005	<0.005		<0.005	0.0001 (J)		<0.005		
7/13/2017						<0.005			0.0004 (J)
10/24/2017			<0.005					<0.005	
10/25/2017	<0.005	<0.005		<0.005	<0.005	<0.005			0.0002 (J)
10/26/2017							<0.005		
2/27/2018			<0.005					<0.005	
2/28/2018	<0.005	<0.005		<0.005	<0.005	<0.005			<0.005
3/1/2018							<0.005		
7/11/2018	<0.005	<0.005	<0.005	<0.005	<0.005				0.00052 (J)
7/12/2018						<0.005	<0.005		
11/6/2018			<0.005					<0.005	
11/7/2018	<0.005	<0.005		<0.005	<0.005	<0.005			<0.005 (J)
11/8/2018							<0.005		
8/27/2019	9E-05 (J)		6E-05 (J)					4.9E-05 (J)	
8/28/2019		0.00026 (J)							0.00036 (J)
8/29/2019				0.00015 (J)	0.00023 (J)	<0.005	6.6E-05 (J)		
10/15/2019								0.0001 (J)	
10/16/2019		<0.005							
10/17/2019			8.6E-05 (J)	9.7E-05 (J)	4.6E-05 (J)				0.00026 (J)
10/18/2019	7.4E-05 (J)					<0.005	<0.005		
3/2/2020								<0.005	
3/3/2020		7E-05 (J)	<0.005		0.00015 (J)	<0.005			
3/4/2020	0.00013 (J)			0.00068 (J)			<0.005		0.0001 (J)
8/11/2020		5.3E-05 (J)	6.4E-05 (J)						
8/12/2020								<0.005	
8/13/2020				0.00044 (J)			<0.005		0.0016 (J)
8/14/2020	0.00017 (J)				<0.005	<0.005			
9/22/2020		0.00016 (J)		0.00013 (J)				<0.005	0.00074 (J)
9/23/2020			9.4E-05 (J)						
9/24/2020	7.9E-05 (J)				0.00014 (J)	<0.005	<0.005		

Time Series

Constituent: Lead (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				<0.005	<0.005				
8/31/2016			0.0002 (J)						
9/1/2016	0.0005 (J)	0.0008 (J)							
12/6/2016			0.0004 (J)	<0.005	<0.005				
12/8/2016	<0.005	0.0019 (J)							
3/28/2017			<0.005		<0.005				
3/29/2017				0.0001 (J)					
3/30/2017		0.0035 (J)							
3/31/2017	0.0009 (J)								
7/11/2017			<0.005	<0.005	<0.005				
7/13/2017	0.0007 (J)	0.002 (J)							
10/24/2017				<0.005	<0.005				
10/25/2017			0.0024 (J)						
10/26/2017	0.0009 (J)	0.0022 (J)							
2/27/2018			<0.005	<0.005	<0.005				
3/1/2018	<0.005								
3/2/2018		<0.005							
7/11/2018					<0.005				
7/12/2018	0.001 (J)	0.0014 (J)							
11/6/2018			<0.005	<0.005	<0.005				
11/7/2018	<0.005 (J)	<0.005 (J)							
8/27/2019			5.1E-05 (J)		<0.005				
8/28/2019				8.2E-05 (J)					
8/29/2019	0.0006 (J)	0.001 (J)							
10/16/2019			8.5E-05 (J)	0.00029 (J)					
10/17/2019	0.0011 (J)				<0.005				
10/18/2019		0.00095 (J)							
3/2/2020			5.1E-05 (J)						
3/3/2020				0.00023 (J)	0.00017 (J)				
3/4/2020	0.00088 (J)	0.0012 (J)							
8/11/2020									
8/12/2020	0.0004 (J)		6.3E-05 (J)	0.0007 (J)					
8/13/2020		0.00092 (J)						0.0016 (J)	
8/17/2020						<0.005	0.00022 (J)		5.9E-05 (J)
9/22/2020			4.8E-05 (J)		0.00015 (J)				
9/23/2020	0.00053 (J)	0.001 (J)		0.00011 (J)					
9/24/2020								0.00021 (J)	
9/28/2020							9.1E-05 (J)		0.00011 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	0.00092 (J)		
8/17/2020		0.00081 (J)	
8/19/2020			0.00012 (J)
9/25/2020	6.5E-05 (J)	0.00035 (J)	
9/28/2020			0.00012 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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)
12/6/2016				<0.03	0.0027 (J)			0.0042 (J)	
12/7/2016						<0.03	0.003 (J)		0.0066 (J)
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)
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)
3/9/2020	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)
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)					

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		0.0034 (J)							
9/2/2016				0.0021 (J)	0.0057 (J)	0.0046 (J)			
9/7/2016	<0.03								0.012 (J)
12/7/2016		0.0034 (J)		0.005 (J)					
12/8/2016	<0.03				0.0054 (J)	0.0047 (J)			0.0118 (J)
3/28/2017								0.0031 (J)	
3/29/2017		0.0031 (J)		0.0021 (J)		0.0043 (J)			
3/30/2017	<0.03		0.0807		0.0065 (J)		0.0162 (J)		
3/31/2017									0.0119 (J)
5/11/2017			0.085						
5/12/2017							0.0036 (J)	0.0027 (J)	
6/15/2017			0.0781				0.0063 (J)	0.0025 (J)	
7/11/2017			0.0731					0.0022 (J)	
7/12/2017	<0.03	0.0032 (J)		0.0019 (J)	0.0057 (J)		0.0068 (J)		
7/13/2017						0.0044 (J)			0.0116 (J)
10/24/2017			0.0995					0.0024 (J)	
10/25/2017	<0.03	0.0031 (J)		0.0022 (J)	0.006 (J)	0.0042 (J)			0.0122 (J)
10/26/2017							0.0049 (J)		
2/27/2018			0.0875					0.0027 (J)	
2/28/2018	<0.03	0.0031 (J)		0.0019 (J)	0.0061 (J)	0.0043 (J)			0.0122 (J)
3/1/2018							0.0759		
7/11/2018	<0.03	0.0034 (J)	0.033 (J)	0.0022 (J)	0.0057 (J)				0.01 (J)
7/12/2018						0.0036 (J)	0.0047 (J)		
11/6/2018			<0.03					<0.03	
11/7/2018	<0.03	<0.03		<0.03	<0.03	<0.03			<0.03
11/8/2018							<0.03		
8/27/2019	0.00089 (J)		0.032					0.0033 (J)	
8/28/2019		0.0032 (J)							0.01 (J)
8/29/2019				0.0093 (J)	0.0061 (J)	0.0035 (J)	0.0017 (J)		
10/15/2019								0.0029 (J)	
10/16/2019		0.0026 (J)							
10/17/2019			0.029 (J)	0.0075 (J)	0.0063 (J)				0.011 (J)
10/18/2019	0.00096 (J)					0.0041 (J)	0.0039 (J)		
3/2/2020								0.0035 (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)			0.004 (J)		0.0091 (J)
8/11/2020		0.0031 (J)	0.028 (J)						
8/12/2020								0.0031 (J)	
8/13/2020				0.012 (J)			0.0052 (J)		0.011 (J)
8/14/2020	0.0015 (J)				0.0058 (J)	0.0039 (J)			
9/22/2020		0.0034 (J)		0.0026 (J)				0.0026 (J)	0.0099 (J)
9/23/2020			0.022 (J)						
9/24/2020	0.00096 (J)				0.0062 (J)	0.0037 (J)	0.0045 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				0.005 (J)	0.0212 (J)				
8/31/2016			0.0026 (J)						
9/1/2016	0.0854	0.125							
12/6/2016			0.0046 (J)	0.0066 (J)	0.0242 (J)				
12/8/2016	0.0667	0.122							
3/28/2017			0.0028 (J)		0.0249 (J)				
3/29/2017				0.0059 (J)					
3/30/2017		0.144							
3/31/2017	0.0767								
7/11/2017			0.0031 (J)	0.0045 (J)	0.022 (J)				
7/13/2017	0.0743	0.143							
10/24/2017				0.0072 (J)	0.0281 (J)				
10/25/2017			0.0055 (J)						
10/26/2017	0.071	0.115							
2/27/2018			0.0066 (J)	0.0075 (J)	0.031 (J)				
3/1/2018	0.0772								
3/2/2018		0.129							
7/11/2018					0.028 (J)				
7/12/2018	0.073	0.12							
11/6/2018			<0.03	<0.03	<0.03				
11/7/2018	0.082	0.12							
8/27/2019			0.008 (J)		0.031				
8/28/2019				0.0048 (J)					
8/29/2019	0.056	0.11							
10/16/2019			0.006 (J)	0.0045 (J)					
10/17/2019	0.066				0.029 (J)				
10/18/2019		0.11							
3/2/2020			0.0079 (J)						
3/3/2020				0.0052 (J)	0.028 (J)				
3/4/2020	0.063	0.12							
8/11/2020					0.032				
8/12/2020	0.054		0.0067 (J)	0.0058 (J)					
8/13/2020		0.098						0.0018 (J)	
8/17/2020						0.58	0.0056 (J)		0.0016 (J)
9/22/2020			0.0065 (J)		0.025 (J)				
9/23/2020	0.046	0.1		0.0045 (J)					
9/24/2020								0.00095 (J)	
9/28/2020							0.005 (J)		0.001 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	0.0045 (J)		
8/17/2020		0.006 (J)	
8/19/2020			0.011 (J)
9/25/2020	0.0018 (J)	0.0016 (J)	
9/28/2020			0.011 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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							<0.0005		<0.0005
12/6/2016				9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016						<0.0005	9E-05 (J)		<0.0005
3/28/2017	<0.0005	<0.0005	<0.0005						
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	<0.0005								
5/12/2017			6E-05 (J)						
5/15/2017		<0.0005							
6/15/2017	8E-05 (J)	7E-05 (J)							
6/16/2017			7E-05 (J)						
7/11/2017		<0.0005	<0.0005						
7/12/2017	<0.0005			<0.0005	<0.0005	8E-05 (J)	<0.0005	<0.0005	<0.0005
8/8/2017		<0.0005							
10/24/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
10/25/2017						6E-05 (J)		<0.0005	<0.0005
11/15/2017							<0.0005		
2/27/2018		<0.0005	<0.0005	<0.0005	<0.0005	6E-05 (J)		<0.0005	
2/28/2018							<0.0005		<0.0005
3/8/2018	<0.0005								
7/11/2018						3.6E-05 (J)		<0.0005	<0.0005
7/12/2018	<0.0005								
11/6/2018		<0.0005	<0.0005	<0.0005	<0.0005				
11/7/2018	<0.0005					<0.0005	<0.0005	<0.0005	<0.0005
8/27/2019		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/28/2019	<0.0005						<0.0005		<0.0005
9/17/2019						<0.0005			
10/15/2019		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
10/16/2019	<0.0005						<0.0005	<0.0005	
10/17/2019									<0.0005
3/2/2020		<0.0005	<0.0005		<0.0005	<0.0005			
3/3/2020				<0.0005			<0.0005	<0.0005	<0.0005
3/9/2020	<0.0005								
8/11/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
8/12/2020							<0.0005		
8/13/2020	<0.0005								<0.0005
9/22/2020	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005	
9/23/2020							<0.0005		<0.0005
9/24/2020				8.1E-05 (J)					

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		4E-05 (J)							
9/2/2016				<0.0005	6E-05 (J)	5E-05 (J)			
9/7/2016	6E-05 (J)								<0.0005
12/7/2016		5E-05 (J)		8E-05 (J)					
12/8/2016	<0.0005				<0.0005	<0.0005			<0.0005
3/28/2017								<0.0005	
3/29/2017		9E-05 (J)		8E-05 (J)		0.0001 (J)			
3/30/2017	0.00012 (J)		7E-05 (J)		8E-05 (J)		0.0002 (J)		
3/31/2017									4E-05 (J)
5/11/2017			8.3E-05 (J)						
5/12/2017							0.00015 (J)	8.2E-05 (J)	
6/15/2017			8E-05 (J)				0.00019 (J)	8E-05 (J)	
7/11/2017			<0.0005					<0.0005	
7/12/2017	5E-05 (J)	<0.0005		<0.0005	6E-05 (J)		0.00012 (J)		
7/13/2017						<0.0005			<0.0005
10/24/2017			<0.0005					<0.0005	
10/25/2017	5E-05 (J)	<0.0005		<0.0005	5E-05 (J)	<0.0005			<0.0005
10/26/2017							0.00012 (J)		
2/27/2018			<0.0005					<0.0005	
2/28/2018	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005			<0.0005
3/1/2018							<0.0005		
7/11/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
7/12/2018						5.5E-05 (J)	0.00016 (J)		
11/6/2018			0.00064					0.00059	
11/7/2018	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005			<0.0005
11/8/2018							<0.0005		
8/27/2019	0.00016 (J)		<0.0005					<0.0005	
8/28/2019		<0.0005							<0.0005
8/29/2019				<0.0005	<0.0005	<0.0005	<0.0005		
10/15/2019								<0.0005	
10/16/2019		<0.0005							
10/17/2019			<0.0005	<0.0005	<0.0005				<0.0005
10/18/2019	<0.0005					<0.0005	<0.0005		
3/2/2020								<0.0005	
3/3/2020		<0.0005	<0.0005		<0.0005	<0.0005			
3/4/2020	<0.0005			<0.0005			0.00026		<0.0005
8/11/2020		<0.0005	<0.0005						
8/12/2020								<0.0005	
8/13/2020				<0.0005			0.00014 (J)		<0.0005
8/14/2020	9.8E-05 (J)				<0.0005	<0.0005			
9/22/2020		<0.0005		<0.0005				<0.0005	<0.0005
9/23/2020			<0.0005						
9/24/2020	8.2E-05 (J)				0.00012 (J)	<0.0005	0.0002 (J)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				9E-05 (J)	<0.0005				
8/31/2016			0.00015 (J)						
9/1/2016	<0.0005	<0.0005							
12/6/2016			0.00012 (J)	0.0001 (J)	5E-05 (J)				
12/8/2016	<0.0005	<0.0005							
3/28/2017			0.00017 (J)		<0.0005				
3/29/2017				0.00012 (J)					
3/30/2017		6E-05 (J)							
3/31/2017	<0.0005								
7/11/2017			0.0002 (J)	6E-05 (J)	<0.0005				
7/13/2017	<0.0005	<0.0005							
10/24/2017				<0.0005	<0.0005				
10/25/2017			9E-05 (J)						
10/26/2017	<0.0005	<0.0005							
2/27/2018			9E-05 (J)	4.2E-05 (J)	4.2E-05 (J)				
3/1/2018	<0.0005								
3/2/2018		<0.0005							
7/11/2018					<0.0005				
7/12/2018	<0.0005	<0.0005							
11/6/2018			0.00055	<0.0005	<0.0005				
11/7/2018	<0.0005	<0.0005							
8/27/2019			0.00016 (J)		0.00021 (J)				
8/28/2019				<0.0005					
8/29/2019	<0.0005	<0.0005							
10/16/2019			<0.0005	<0.0005					
10/17/2019	<0.0005				0.00042 (J)				
10/18/2019		<0.0005							
3/2/2020			<0.0005						
3/3/2020				<0.0005	<0.0005				
3/4/2020	<0.0005	<0.0005							
8/11/2020					0.00026				
8/12/2020	<0.0005		0.00017 (J)	7.9E-05 (J)					
8/13/2020		<0.0005						<0.0005	
8/17/2020						0.0001 (J)	0.00016 (J)		0.00011 (J)
9/22/2020			0.0002 (J)		0.00013 (J)				
9/23/2020	<0.0005	<0.0005		<0.0005					
9/24/2020								<0.0005	
9/28/2020							<0.0005		<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	<0.0005		
8/17/2020		0.00011 (J)	
8/19/2020			0.00026
9/25/2020	<0.0005	<0.0005	
9/28/2020			0.00024 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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
12/6/2016				<0.01	<0.01			<0.01	
12/7/2016						<0.01	0.0273		<0.01
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
3/2/2020		<0.01	<0.01		<0.01	<0.01			
3/3/2020				<0.01			0.018	<0.01	<0.01
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
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					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		<0.01							
9/2/2016				<0.01	<0.01	<0.01			
9/7/2016	<0.01								<0.01
12/7/2016		<0.01		<0.01					
12/8/2016	<0.01				<0.01	<0.01			<0.01
3/28/2017								0.008 (J)	
3/29/2017		<0.01		<0.01		<0.01			
3/30/2017	<0.01		0.0009 (J)		<0.01		0.0084 (J)		
3/31/2017									<0.01
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	<0.01	<0.01		<0.01	<0.01		0.0092 (J)		
7/13/2017						<0.01			<0.01
10/24/2017			<0.01					0.0072 (J)	
10/25/2017	<0.01	<0.01		<0.01	<0.01	<0.01			<0.01
10/26/2017							0.0077 (J)		
2/27/2018			<0.01					0.0069 (J)	
2/28/2018	<0.01	<0.01		<0.01	<0.01	<0.01			<0.01
3/1/2018							0.0045 (J)		
7/11/2018	<0.01	<0.01	<0.01	<0.01	<0.01				<0.01
7/12/2018						<0.01	0.012		
11/6/2018			<0.01					<0.01 (J)	
11/7/2018	<0.01	<0.01		<0.01	<0.01	<0.01			<0.01
11/8/2018							0.012		
8/27/2019	<0.01		0.002 (J)					0.0065 (J)	
8/28/2019		<0.01							<0.01
8/29/2019				<0.01	<0.01	<0.01	0.014		
10/15/2019								0.0061 (J)	
10/16/2019		<0.01							
10/17/2019			0.0018 (J)	<0.01	<0.01				<0.01
10/18/2019	<0.01					<0.01	0.0091 (J)		
3/2/2020								0.0059 (J)	
3/3/2020		<0.01	0.0022 (J)		<0.01	<0.01			
3/4/2020	<0.01			<0.01			0.0047 (J)		<0.01
8/11/2020		<0.01	0.002 (J)						
8/12/2020								0.0057 (J)	
8/13/2020				<0.01			0.013		<0.01
8/14/2020	<0.01				<0.01	<0.01			
9/22/2020		<0.01		<0.01				0.0028 (J)	<0.01
9/23/2020			0.0022 (J)						
9/24/2020	<0.01				<0.01	<0.01	0.0088 (J)		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				<0.01	<0.01				
8/31/2016			<0.01						
9/1/2016	<0.01	<0.01							
12/6/2016			<0.01	<0.01	<0.01				
12/8/2016	<0.01	<0.01							
3/28/2017			<0.01		<0.01				
3/29/2017				<0.01					
3/30/2017		<0.01							
3/31/2017	<0.01								
7/11/2017			<0.01	<0.01	<0.01				
7/13/2017	<0.01	<0.01							
10/24/2017				<0.01	<0.01				
10/25/2017			<0.01						
10/26/2017	<0.01	<0.01							
2/27/2018			<0.01	<0.01	<0.01				
3/1/2018	<0.01								
3/2/2018		<0.01							
7/11/2018					<0.01				
7/12/2018	<0.01	<0.01							
11/6/2018			<0.01	<0.01	<0.01				
11/7/2018	<0.01	<0.01							
8/27/2019			<0.01		<0.01				
8/28/2019				<0.01					
8/29/2019	<0.01	<0.01							
10/16/2019			<0.01	<0.01					
10/17/2019	<0.01				<0.01				
10/18/2019		<0.01							
3/2/2020			<0.01						
3/3/2020				<0.01	<0.01				
3/4/2020	<0.01	<0.01							
8/11/2020					<0.01				
8/12/2020	<0.01		<0.01	<0.01					
8/13/2020		<0.01						<0.01	
8/17/2020						0.0015 (J)	<0.01		<0.01
9/22/2020			<0.01		<0.01				
9/23/2020	<0.01	<0.01		<0.01					
9/24/2020								<0.01	
9/28/2020							<0.01		<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	<0.01		
8/17/2020		0.0012 (J)	
8/19/2020			<0.01
9/25/2020	<0.01	0.0012 (J)	
9/28/2020			<0.01

Time Series

Constituent: pH (SU) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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
12/6/2016				4.9	5.91			5.63	
12/7/2016						5.65	5.96		5.94
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	5.875 (D)
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
3/2/2020		5.54	5.77		5.62	6.13			
3/3/2020				4.77			5.71	5.73	5.79
3/9/2020	6.41 (D)								
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
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					

Time Series

Constituent: pH (SU) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		4.64							
9/2/2016				4.7	5.7	5.74			
9/7/2016	5.05								5.35
12/7/2016		4.655 (D)							
12/8/2016	5.12				5.64	6.03			5.41
3/28/2017								6.01	
3/29/2017		4.7		4.7		5.77			
3/30/2017	5.08		5.75		5.79		6.03		
3/31/2017									5.36
5/11/2017			5.67						
5/12/2017							5.97	5.87	
6/15/2017			5.75				6	6.03	
7/11/2017			5.87					6.04	
7/12/2017	5	4.76		4.67	5.71		5.97		
7/13/2017						5.71			5.27
10/24/2017			5.82					5.99	
10/25/2017	5.73	4.66		4.71	5.68	5.77			5.38 (D)
10/26/2017							5.9		
11/15/2017								5.92	
2/27/2018			5.85					6.03	
2/28/2018	5.22	4.63		4.51	5.71	5.77			5.37
3/1/2018							6.19		
7/10/2018								5.96	
7/11/2018	5.07	4.71	5.85	4.68					5.19
7/12/2018						5.62	5.97		
11/6/2018			5.88					5.97	
11/7/2018	5.09	4.69		4.64	5.61	5.71			5.18
11/8/2018							5.96		
3/12/2019			5.94					5.85	
3/13/2019	5.07	4.76		4.65	5.62				
3/14/2019						5.67	5.99		5.1
8/27/2019	4.96		5.94					5.84	
8/28/2019		4.85							5.3
8/29/2019				4.64	5.61	5.66	5.96		
10/15/2019								5.98	
10/16/2019		4.87							
10/17/2019			6.16	4.64	5.57				5.2
10/18/2019	5.08					5.61	5.99		
3/2/2020								5.88	
3/3/2020	5.07	4.89	5.94		5.65	5.74			
3/4/2020	5.07			4.22			5.68		5.18
8/11/2020		4.9	6.04						
8/12/2020								5.93	
8/13/2020				4.36			6		5.34
8/14/2020	5.01				5.66	5.76			
9/22/2020		4.91		4.66				5.88	5.76
9/23/2020			5.99						
9/24/2020	5.1				5.64	5.69	6.19		

Time Series

Constituent: pH (SU) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				5.33	4.08				
8/31/2016			4.31						
9/1/2016	5.11	4.7							
12/6/2016			4.43	5.39	4.15				
12/8/2016	5.71	4.58							
3/28/2017			4.44		4.16				
3/29/2017				5.23					
3/30/2017		4.19							
3/31/2017	4.58								
7/11/2017			4.46	5.33	4.23				
7/13/2017	4.95	4.3							
10/24/2017				5.05	4.06				
10/25/2017			4.54 (D)						
10/26/2017	5.37 (D)	4.39							
2/27/2018			4.87	5.08 (D)	4.04				
3/1/2018	3.93								
3/2/2018		4.14							
7/10/2018			4.77	5.11					
7/11/2018					4.03				
7/12/2018	4.33	4.36							
11/6/2018			4.89	5.13	4				
11/7/2018	4.48	4.23							
3/12/2019			4.42	5.07	3.98				
3/14/2019	3.88	4.12							
8/27/2019			4.83		4.02				
8/28/2019				5.11					
8/29/2019	4.35	4.28							
10/16/2019			4.78	5.33					
10/17/2019	4.6				4.02				
10/18/2019		4.22							
3/2/2020			4.8						
3/3/2020				5.12	4.07				
3/4/2020	3.86	4.27							
8/11/2020					4				
8/12/2020	4.43		4.84	5.36					
8/13/2020		4.26						6.14	
8/17/2020						5.51	4.82		5.48
9/22/2020			4.83		4				
9/23/2020	4.4	4.64		5.21					
9/24/2020								6.46	
9/28/2020							4.9		5.54

Time Series

Constituent: pH (SU) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	5.59		
8/17/2020		5.76	
8/19/2020			4.78
9/25/2020	5.97	5.75	
9/28/2020			4.67

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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	<0.01			0.0016 (J)	
9/1/2016						0.0017 (J)			
9/6/2016							0.0011 (J)		<0.01
12/6/2016				0.0026 (J)	<0.01			<0.01	
12/7/2016						<0.01	0.0015 (J)		<0.01
3/28/2017	<0.01	<0.01	<0.01						
3/29/2017				0.0286	<0.01	0.0017 (J)		<0.01	
3/30/2017							0.0015 (J)		<0.01
5/11/2017	<0.01								
5/12/2017			<0.01						
5/15/2017		<0.01							
6/15/2017	<0.01	<0.01							
6/16/2017			<0.01						
7/11/2017		<0.01	<0.01						
7/12/2017	<0.01			0.0257	<0.01	0.0019 (J)	<0.01	<0.01	<0.01
8/8/2017		<0.01							
10/24/2017	<0.01	<0.01	<0.01	0.0281	<0.01				
10/25/2017						0.0024 (J)		<0.01	<0.01
11/15/2017							0.0019 (J)		
2/27/2018		<0.01	<0.01	0.0667	<0.01	<0.01		<0.01	
2/28/2018							<0.01		<0.01
3/8/2018	<0.01								
7/11/2018						<0.01		0.002 (J)	<0.01
7/12/2018	<0.01								
11/6/2018		<0.01	<0.01	0.049	<0.01				
11/7/2018	<0.01					<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)
8/27/2019		<0.01	<0.01	0.015	<0.01	<0.01		<0.01	
8/28/2019	<0.01						0.0039 (J)		<0.01
9/17/2019						0.0014 (J)			
10/15/2019		<0.01	<0.01	0.071	<0.01	0.0019 (J)			
10/16/2019	<0.01						0.0031 (J)	0.0017 (J)	
10/17/2019									<0.01
3/2/2020		<0.01	<0.01		<0.01	<0.01			
3/3/2020				0.021			0.0062 (J)	0.0014 (J)	<0.01
3/9/2020	<0.01								
8/11/2020		<0.01	<0.01	0.023	<0.01	0.0019 (J)		<0.01	
8/12/2020							0.0038 (J)		
8/13/2020	<0.01								0.0018 (J)
9/22/2020	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	
9/23/2020							0.0053 (J)		<0.01
9/24/2020				0.074					

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		0.0093 (J)							
9/2/2016				0.0671	<0.01	<0.01			
9/7/2016	0.007 (J)								<0.01
12/7/2016		<0.01		0.0056 (J)					
12/8/2016	0.0087 (J)				<0.01	<0.01			<0.01
3/28/2017								<0.01	
3/29/2017		0.0071 (J)		0.0521		<0.01			
3/30/2017	0.0099 (J)		<0.01		<0.01		<0.01		
3/31/2017									<0.01
5/11/2017			<0.01						
5/12/2017							<0.01	<0.01	
6/15/2017			<0.01				<0.01	<0.01	
7/11/2017			<0.01				<0.01	<0.01	
7/12/2017	0.0072 (J)	0.0065 (J)		0.0483	<0.01		<0.01		
7/13/2017						<0.01			<0.01
10/24/2017			<0.01					<0.01	
10/25/2017	0.0078 (J)	0.0087 (J)		0.0506	<0.01	<0.01			<0.01
10/26/2017							<0.01		
2/27/2018			<0.01					<0.01	
2/28/2018	<0.01	0.0114		0.0755	<0.01	<0.01			<0.01
3/1/2018							<0.01		
7/11/2018	0.007 (J)	0.0036 (J)	0.0045 (J)	0.022	<0.01				<0.01
7/12/2018						0.0017 (J)	<0.01		
11/6/2018			<0.01 (J)					<0.01	
11/7/2018	<0.01	<0.01 (J)		0.044	<0.01	<0.01			<0.01
11/8/2018							<0.01		
8/27/2019	0.0073 (J)		0.0069 (J)					<0.01	
8/28/2019		0.004 (J)							<0.01
8/29/2019				0.029	<0.01	<0.01	<0.01		
10/15/2019								0.0014 (J)	
10/16/2019		0.006 (J)							
10/17/2019			0.0051 (J)	0.071	<0.01				<0.01
10/18/2019	0.0093 (J)					<0.01	<0.01		
3/2/2020								<0.01	
3/3/2020		0.0066 (J)	0.0047 (J)		<0.01	<0.01			
3/4/2020	0.0074 (J)			0.071			<0.01		<0.01
8/11/2020		0.0096 (J)	0.0053 (J)						
8/12/2020								<0.01	
8/13/2020				0.091			<0.01		<0.01
8/14/2020	0.0084 (J)				<0.01	<0.01			
9/22/2020		0.0052 (J)		0.023				<0.01	<0.01
9/23/2020			0.0046 (J)						
9/24/2020	0.015				<0.01	<0.01	<0.01		

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				0.0032 (J)	0.0833				
8/31/2016			0.0182						
9/1/2016	0.0217	0.0084 (J)							
12/6/2016			0.012	<0.01	0.0065 (J)				
12/8/2016	0.017	0.0084 (J)							
3/28/2017			0.168		0.0954				
3/29/2017				0.0048 (J)					
3/30/2017		0.0079 (J)							
3/31/2017	0.0133								
7/11/2017			0.0607	0.0031 (J)	0.0561				
7/13/2017	0.0068 (J)	0.0062 (J)							
10/24/2017				0.0069 (J)	0.0653				
10/25/2017			0.034						
10/26/2017	0.0097 (J)	0.0058 (J)							
2/27/2018			0.0348	<0.01	0.13				
3/1/2018	0.0124								
3/2/2018		<0.01							
7/11/2018					0.045				
7/12/2018	0.015	0.013							
11/6/2018			<0.01 (J)	<0.01 (J)	0.12				
11/7/2018	<0.01 (J)	<0.01 (J)							
8/27/2019			0.0031 (J)		0.067				
8/28/2019				<0.01					
8/29/2019	0.004 (J)	0.0023 (J)							
10/16/2019			0.015	0.0016 (J)					
10/17/2019	0.0062 (J)				0.19				
10/18/2019		0.005 (J)							
3/2/2020			0.032						
3/3/2020				0.0018 (J)	0.046				
3/4/2020	0.0065 (J)	0.0061 (J)							
8/11/2020					0.11				
8/12/2020	0.002 (J)		0.011	<0.01					
8/13/2020		0.0029 (J)						<0.01	
8/17/2020						0.0021 (J)	0.011		<0.01
9/22/2020			0.04		0.23				
9/23/2020	<0.01	0.0016 (J)		0.0028 (J)					
9/24/2020								<0.01	
9/28/2020							0.029		0.0021 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	0.015		
8/17/2020		0.0017 (J)	
8/19/2020			0.018
9/25/2020	0.019	0.0033 (J)	
9/28/2020			0.036

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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
12/6/2016				190	190			45	
12/7/2016						350	160		180
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
3/2/2020		<1	8.5		264	181			
3/3/2020				213			157	45.5	148
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					

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		240							
9/2/2016				580	300	140			
9/7/2016	230								370
12/7/2016		250		650					
12/8/2016	240				280	260			350
3/28/2017								680	
3/29/2017		250		640		290			
3/30/2017	260		360		270		220		
3/31/2017									380
5/11/2017			340						
5/12/2017							220	680	
6/15/2017			300				200	730	
7/11/2017			330					740	
7/12/2017	230	250		630	290		220		
7/13/2017						300			370
10/24/2017			260					930	
10/25/2017	240	270		610	290	290			370
10/26/2017							220		
11/15/2017								820	
2/27/2018			189					811	
2/28/2018	203	244		584	267	278			350
3/1/2018							209		
7/11/2018	234	249	162	501	277				366
7/12/2018						197	202		
11/6/2018			190					902	
11/7/2018	248	266		554	286	320			439
11/8/2018							292		
3/12/2019			159					987	
3/13/2019	268	299		539	312				
3/14/2019						297	266		404
10/15/2019								888	
10/16/2019		323							
10/17/2019			134	426	255				321
10/18/2019	222					254	203		
3/2/2020								840	
3/3/2020		292	118		269	242			
3/4/2020	222			434			204		329
9/22/2020		310		408				800	320
9/23/2020			122						
9/24/2020	259				269	262	215		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-56	B-77	B-82	B-83
8/30/2016				450	300				
8/31/2016			400						
9/1/2016	470	540							
12/6/2016			460	480	320				
12/8/2016	400	540							
3/28/2017			380		300				
3/29/2017				660					
3/30/2017		550							
3/31/2017	350								
7/11/2017			440	440	320				
7/13/2017	270	500							
10/24/2017				430	430				
10/25/2017			510						
10/26/2017	290	510							
2/27/2018			453	340	327				
3/1/2018	245								
3/2/2018		456							
7/11/2018					344				
7/12/2018	240	409							
11/6/2018			556	307	438				
11/7/2018	143	432							
3/12/2019			484	295	362				
3/14/2019	238	450							
10/16/2019			493	235					
10/17/2019	179				331				
10/18/2019		336							
3/2/2020			455						
3/3/2020				195	247				
3/4/2020	176	368							
9/22/2020			423		282				
9/23/2020	111	313		178					
9/24/2020							2.9		
9/25/2020									107
9/28/2020						211		287	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-93
9/25/2020	344	
9/28/2020		419

Time Series

Constituent: TDS (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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
12/6/2016				595	358			138	
12/7/2016						559	270		287
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
3/2/2020		52	67		458	338			
3/3/2020				382			263	123	323
3/9/2020	171								
9/22/2020	142	46	74		481	338		105	
9/23/2020							278		317
9/24/2020				283					

Time Series

Constituent: TDS (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		396							
9/2/2016				1100	459	502			
9/7/2016	353								611
12/7/2016		400		930					
12/8/2016	408				491	464			535
3/28/2017								1160	
3/29/2017		390		923		462			
3/30/2017	338		580		436		380		
3/31/2017									661
5/11/2017			573						
5/12/2017							438	1230	
6/15/2017			626				458	1290	
7/11/2017			542					1160	
7/12/2017	417	360		956	505		461		
7/13/2017						492			641
10/24/2017			523					229	
10/25/2017	343	423		854	474	477			626
10/26/2017							446		
11/15/2017								1330	
2/27/2018			401					1380	
2/28/2018	364	440		888	480	476			616
3/1/2018							454		
7/11/2018	393	457	334	826	485				638
7/12/2018						486	432		
11/6/2018			334					1480	
11/7/2018	408	461		834	516	511			626
11/8/2018							450		
3/12/2019			297					1490	
3/13/2019	802	113		639	486				
3/14/2019						491	453		630
10/15/2019								1520	
10/16/2019		500							
10/17/2019			302	751	498				612
10/18/2019	403					480	448		
3/2/2020								1540	
3/3/2020		526	277		490	452			
3/4/2020	414			761			408		721
9/22/2020		513		724				1400	547
9/23/2020			267						
9/24/2020	411				494	455	456		

Time Series

Constituent: TDS (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-56	B-77	B-82	B-83
8/30/2016				693	414				
8/31/2016			524						
9/1/2016	704	845							
12/6/2016			690	727	449				
12/8/2016	587	777							
3/28/2017			545		404				
3/29/2017				654					
3/30/2017		775							
3/31/2017	545								
7/11/2017			612	679	436				
7/13/2017	441	789							
10/24/2017				468	599				
10/25/2017			650						
10/26/2017	444	753							
2/27/2018			698	520	482				
3/1/2018	435								
3/2/2018		704							
7/11/2018					532				
7/12/2018	372	705							
11/6/2018			809	456	554				
11/7/2018	348	678							
3/12/2019			711	438	493				
3/14/2019	378	625							
10/16/2019			702	374					
10/17/2019	327				550				
10/18/2019		593							
3/2/2020			759						
3/3/2020				369	444				
3/4/2020	334	630							
9/22/2020			716		461				
9/23/2020	229	575		333					
9/24/2020							124		
9/25/2020									244
9/28/2020						320		454	

Time Series

Constituent: TDS (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-93
9/25/2020	624	
9/28/2020		686

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

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
12/6/2016				0.0004 (J)	<0.001			<0.001	
12/7/2016						<0.001	<0.001		<0.001
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
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
3/9/2020	<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
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)					

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/1/2016		0.0005 (J)							
9/2/2016				<0.001	<0.001	<0.001			
9/7/2016	<0.001								<0.001
12/7/2016		0.0005 (J)		0.0006 (J)					
12/8/2016	<0.001				<0.001	<0.001			<0.001
3/28/2017								<0.001	
3/29/2017		0.0004 (J)		0.0006 (J)		6E-05 (J)			
3/30/2017	0.0002 (J)		<0.001		<0.001		<0.001		
3/31/2017									9E-05 (J)
5/11/2017			<0.001						
5/12/2017							<0.001	<0.001	
6/15/2017			<0.001				<0.001	<0.001	
7/11/2017			<0.001				<0.001	<0.001	
7/12/2017	0.0002 (J)	0.0005 (J)		0.0006 (J)	<0.001		<0.001		
7/13/2017						7E-05 (J)			9E-05 (J)
10/24/2017			<0.001					<0.001	
10/25/2017	0.0002 (J)	0.0004 (J)		0.0005 (J)	<0.001	7E-05 (J)			9E-05 (J)
10/26/2017							<0.001		
2/27/2018			<0.001					<0.001	
2/28/2018	0.00015 (J)	0.00049 (J)		<0.001	<0.001	<0.001			<0.001
3/1/2018							<0.001		
7/11/2018	0.00017 (J)	0.0005 (J)	<0.001	<0.001	<0.001				<0.001
7/12/2018						<0.001	<0.001		
11/6/2018			<0.001					<0.001	
11/7/2018	<0.001	<0.001 (J)		<0.001 (J)	<0.001	<0.001			<0.001
11/8/2018							<0.001 (J)		
8/27/2019	0.00018 (J)		<0.001					<0.001	
8/28/2019		0.00053 (J)							6.9E-05 (J)
8/29/2019				0.00084 (J)	<0.001	6.4E-05 (J)	<0.001		
10/15/2019								7.3E-05 (J)	
10/16/2019		0.00053 (J)							
10/17/2019			<0.001	0.00062 (J)	<0.001				<0.001
10/18/2019	0.00014 (J)					<0.001	<0.001		
3/2/2020								<0.001	
3/3/2020		0.0006 (J)	<0.001		<0.001	7E-05 (J)			
3/4/2020	0.00019 (J)			0.0023 (J)			<0.001		<0.001
8/11/2020		0.00059 (J)	<0.001						
8/12/2020								<0.001	
8/13/2020				0.0016 (J)			<0.001		<0.001
8/14/2020	0.00019 (J)				<0.001	<0.001			
9/22/2020		0.0005 (J)		0.00055 (J)				<0.001	<0.001
9/23/2020			<0.001						
9/24/2020	0.00018 (J)				<0.001	<0.001	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-3	B-56	B-77	B-82
8/30/2016				<0.001	<0.001				
8/31/2016			<0.001						
9/1/2016	0.0002 (J)	<0.001							
12/6/2016			<0.001	<0.001	0.0006 (J)				
12/8/2016	<0.001	<0.001							
3/28/2017			0.0002 (J)		0.0007 (J)				
3/29/2017				0.0002 (J)					
3/30/2017		9E-05 (J)							
3/31/2017	0.0002 (J)								
7/11/2017			<0.001	0.0001 (J)	0.0007 (J)				
7/13/2017	0.0002 (J)	8E-05 (J)							
10/24/2017				0.0003 (J)	0.0006 (J)				
10/25/2017			<0.001						
10/26/2017	0.0003 (J)	9E-05 (J)							
2/27/2018			<0.001	0.00033 (J)	0.00038 (J)				
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 (J)	<0.001				
11/7/2018	<0.001 (J)	<0.001							
8/27/2019			<0.001		0.00053 (J)				
8/28/2019				0.00022 (J)					
8/29/2019	0.00025 (J)	7.8E-05 (J)							
10/16/2019			7.8E-05 (J)	0.00025 (J)					
10/17/2019	0.00025 (J)				0.00076 (J)				
10/18/2019		<0.001							
3/2/2020			6.2E-05 (J)						
3/3/2020				0.00023 (J)	0.00044 (J)				
3/4/2020	0.00021 (J)	6.8E-05 (J)							
8/11/2020					<0.001				
8/12/2020	0.00018 (J)		<0.001	0.00023 (J)					
8/13/2020		<0.001						<0.001	
8/17/2020						<0.001	0.00016 (J)		<0.001
9/22/2020			<0.001		0.00043 (J)				
9/23/2020	0.00026 (J)	<0.001		0.0002 (J)					
9/24/2020								<0.001	
9/28/2020							0.00023 (J)		<0.001

Time Series

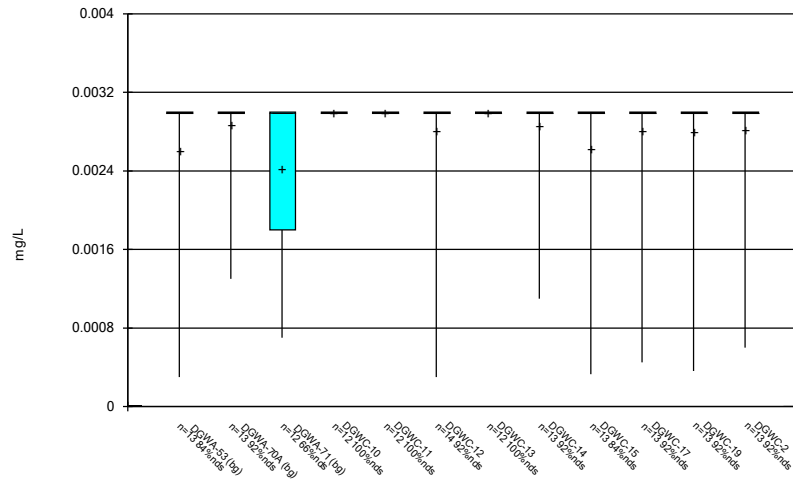
Constituent: Thallium (mg/L) Analysis Run 11/4/2020 3:50 PM View: Descriptive 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
8/14/2020	<0.001		
8/17/2020		<0.001	
8/19/2020			<0.001
9/25/2020	<0.001	<0.001	
9/28/2020			<0.001

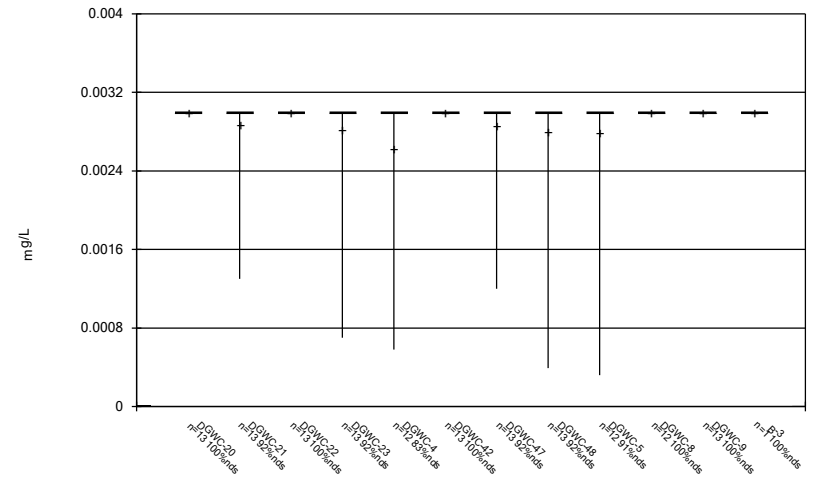
FIGURE B.

Box & Whiskers Plot



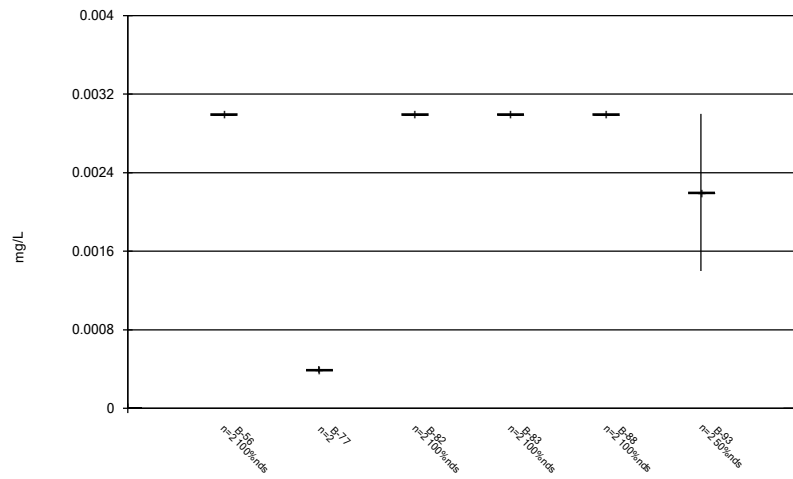
Constituent: Antimony Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



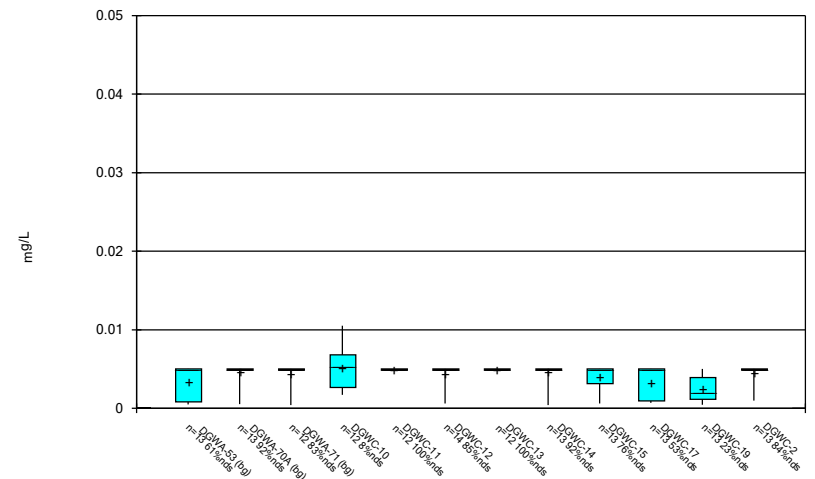
Constituent: Antimony Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



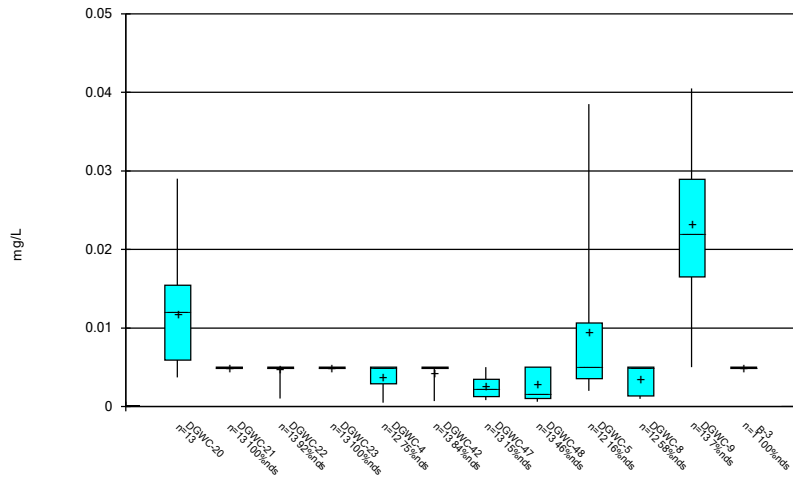
Constituent: Antimony Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



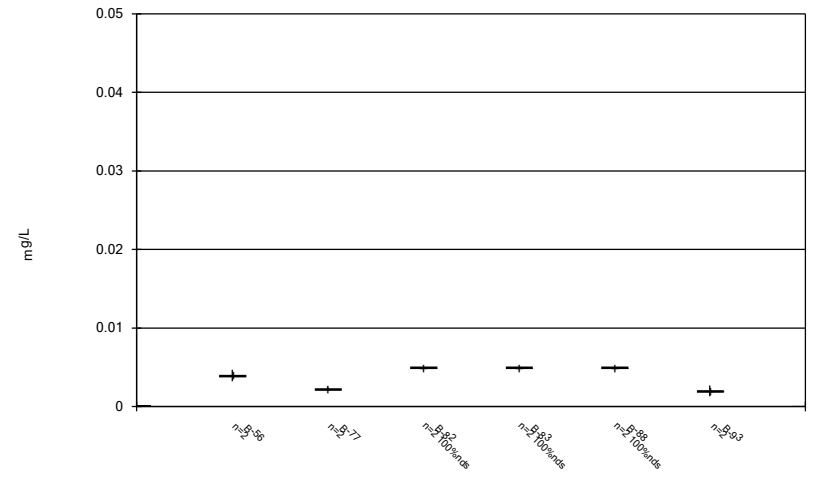
Constituent: Arsenic Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



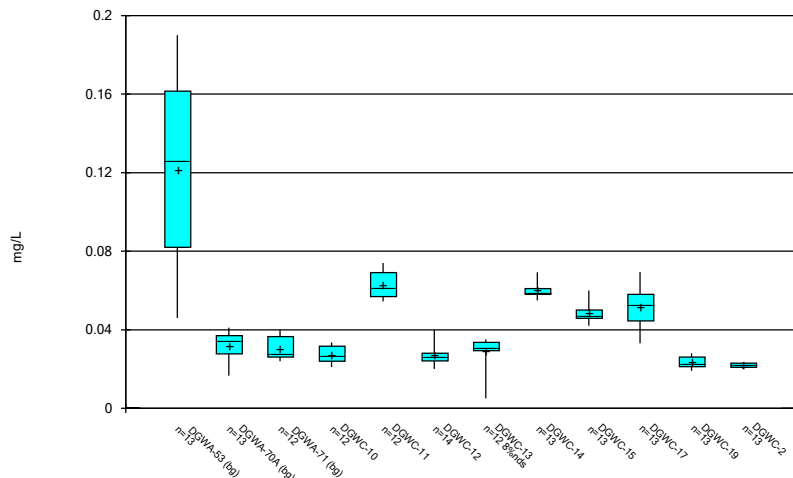
Constituent: Arsenic Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



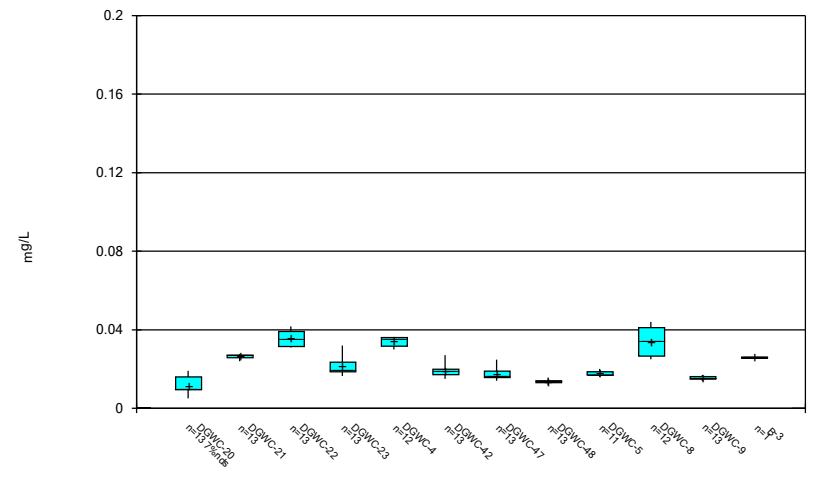
Constituent: Arsenic Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



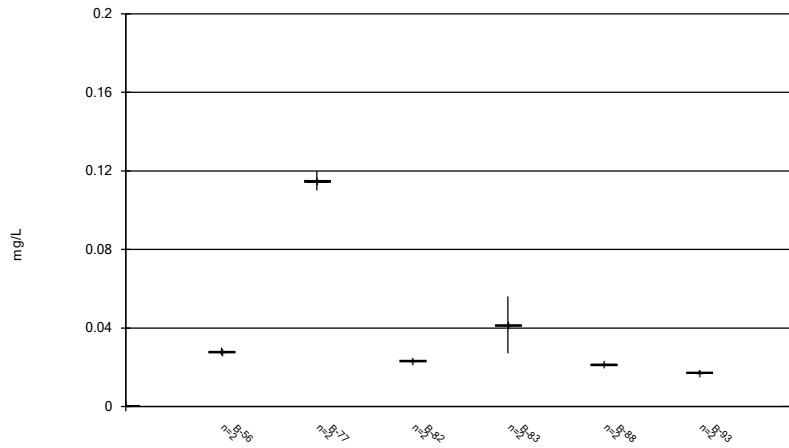
Constituent: Barium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



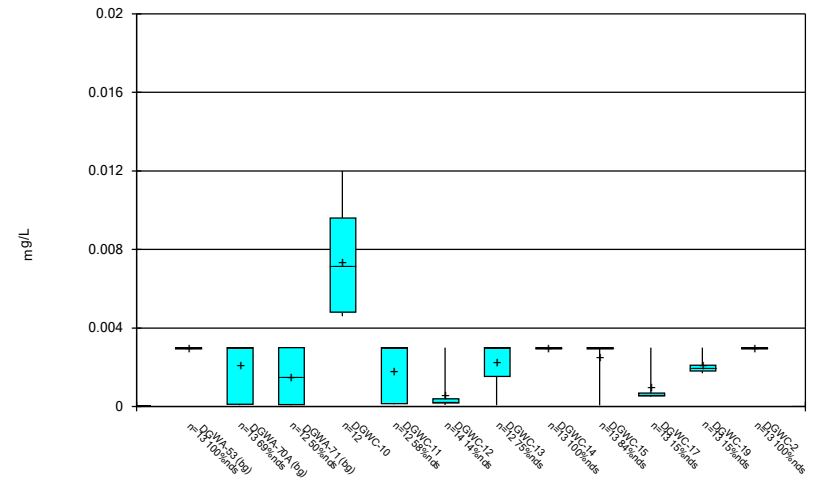
Constituent: Barium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



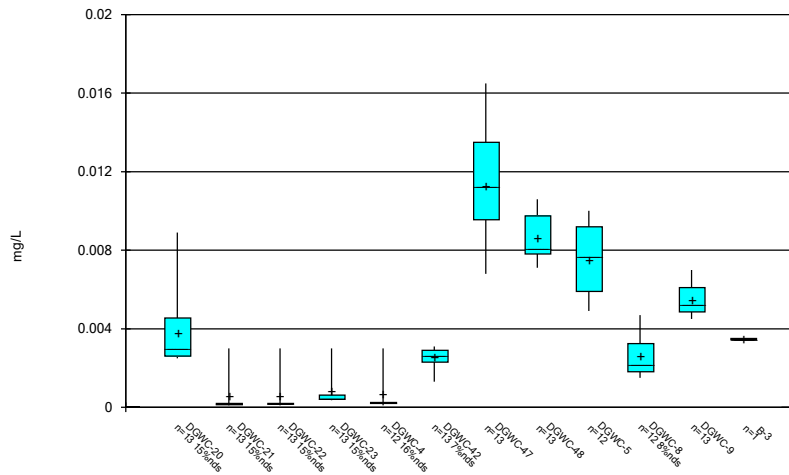
Constituent: Barium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



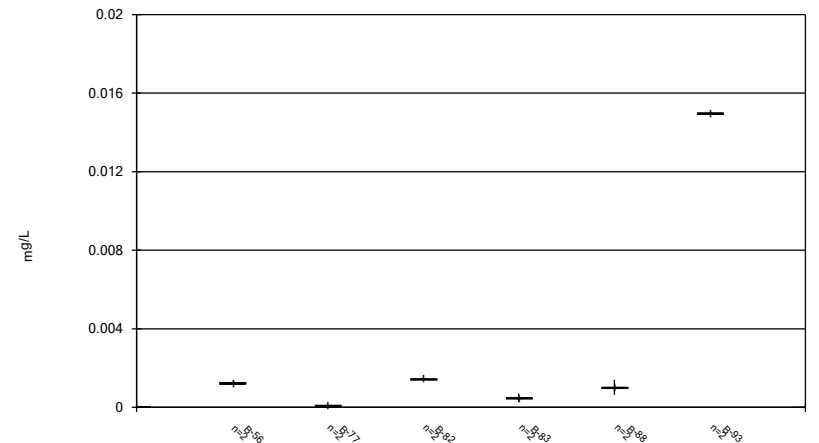
Constituent: Beryllium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



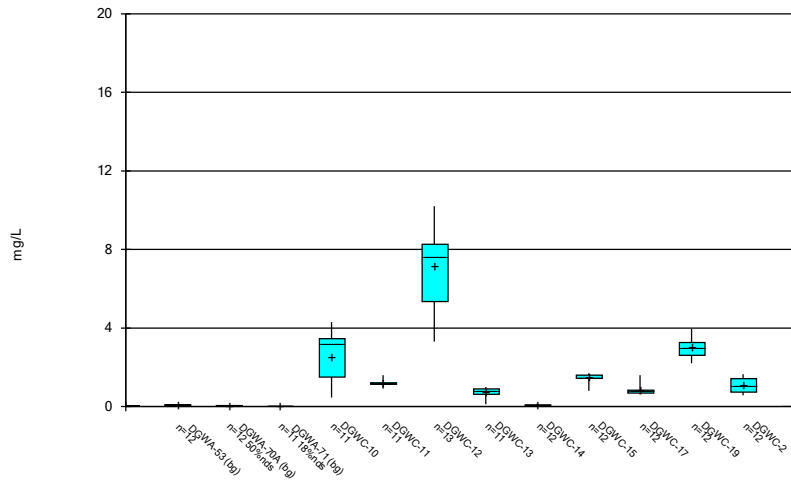
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



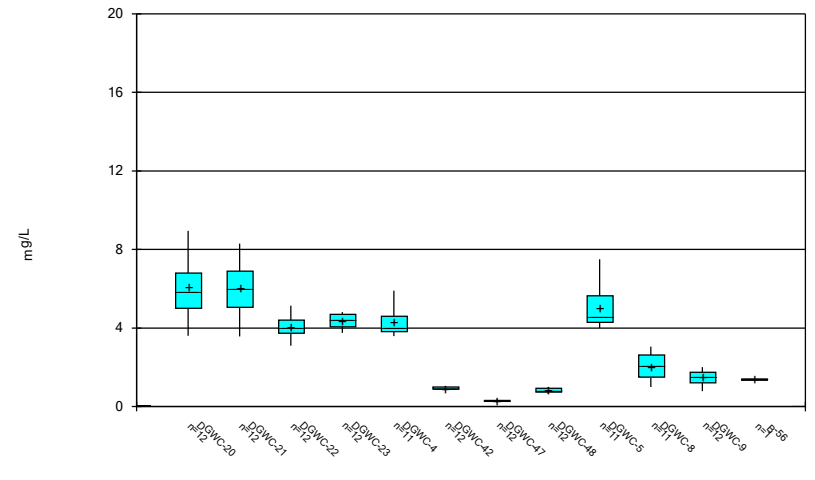
Constituent: Beryllium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



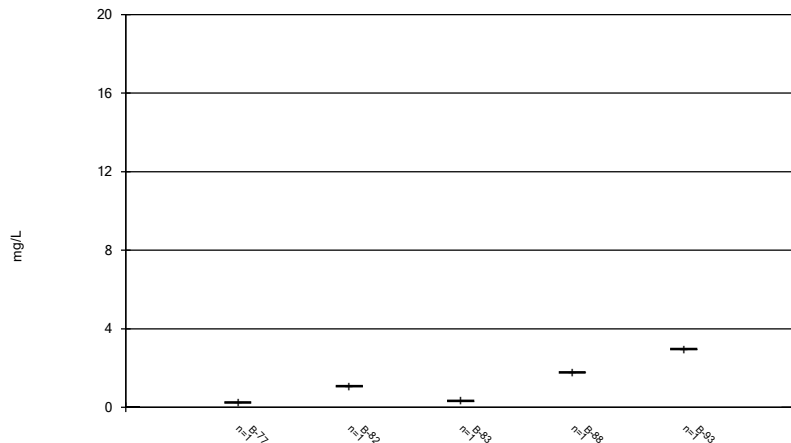
Constituent: Boron Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



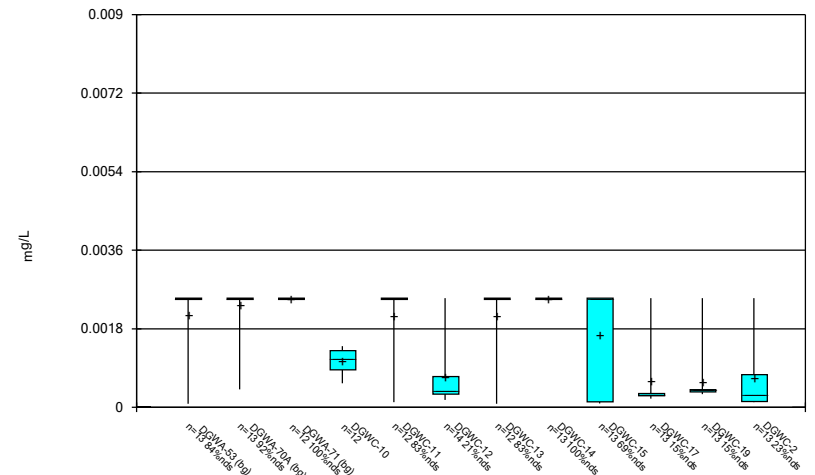
Constituent: Boron Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



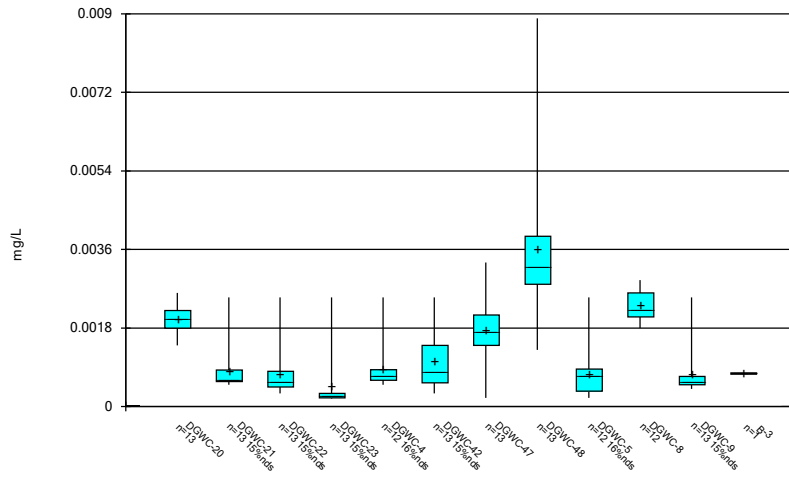
Constituent: Boron Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



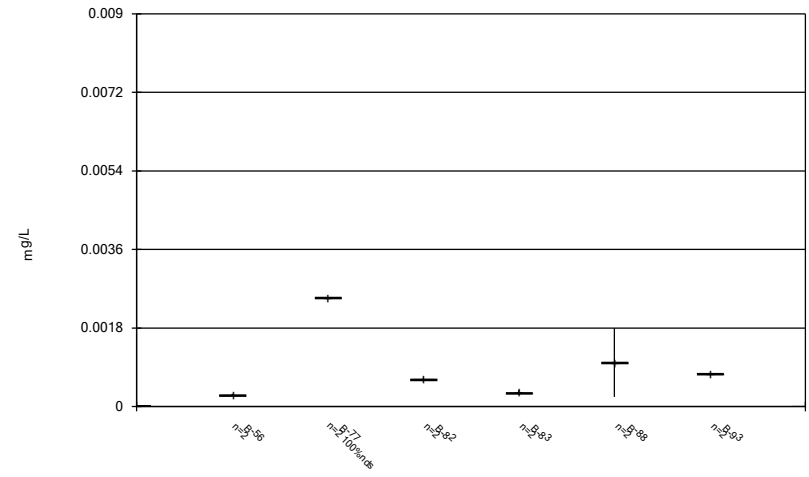
Constituent: Cadmium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



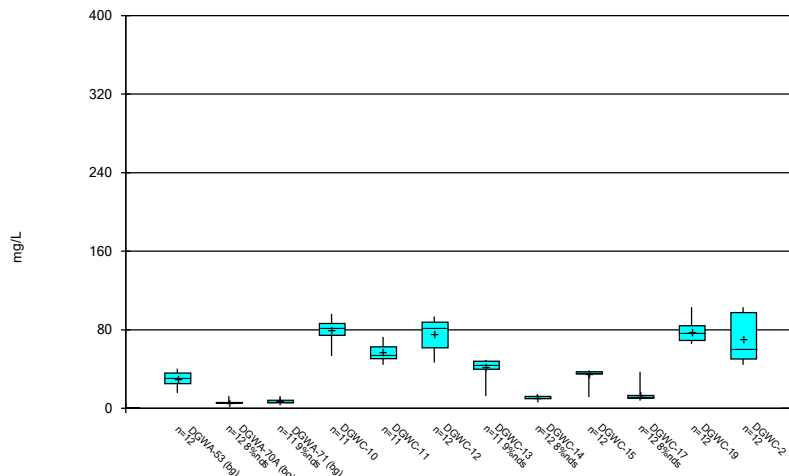
Constituent: Cadmium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



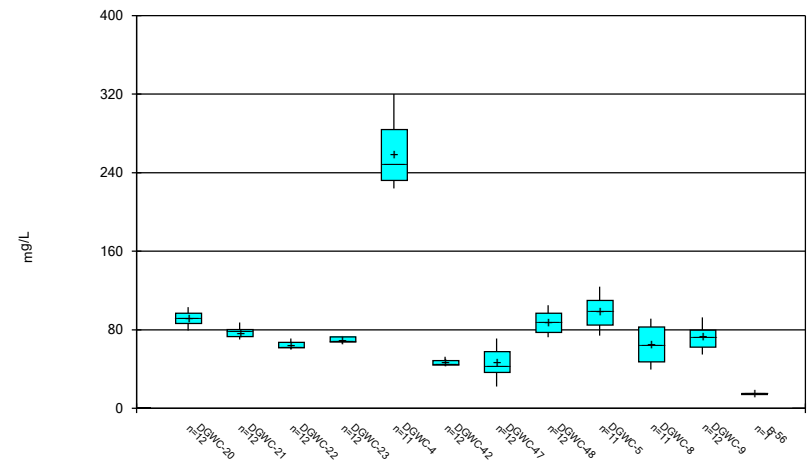
Constituent: Cadmium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



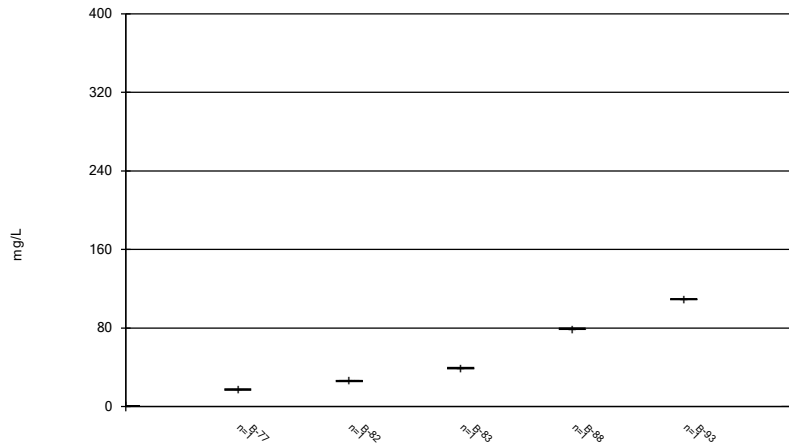
Constituent: Calcium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



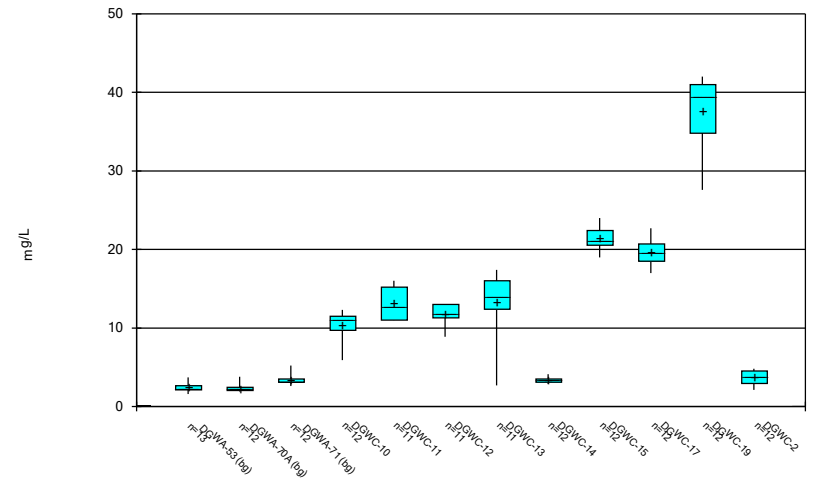
Constituent: Calcium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



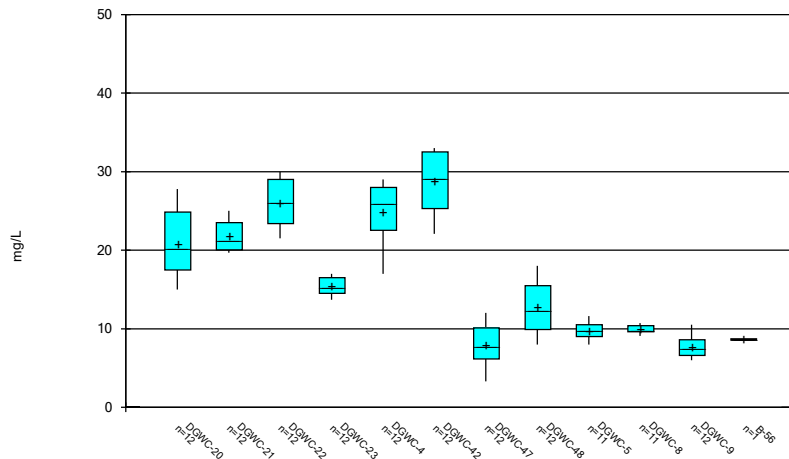
Constituent: Calcium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



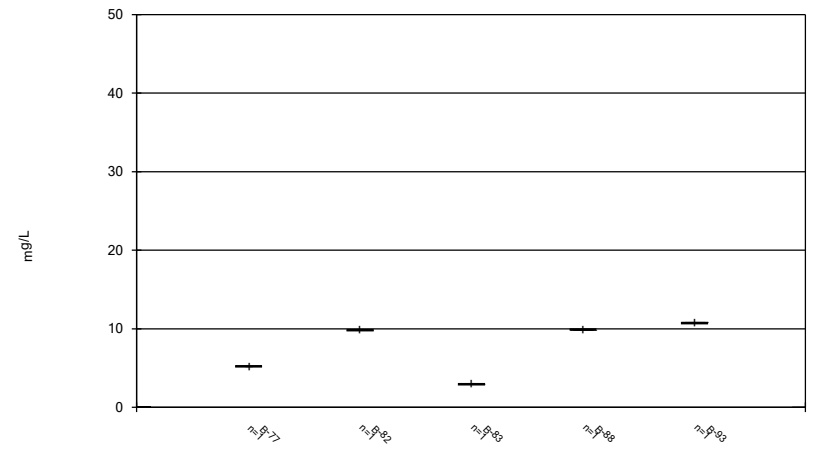
Constituent: Chloride Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



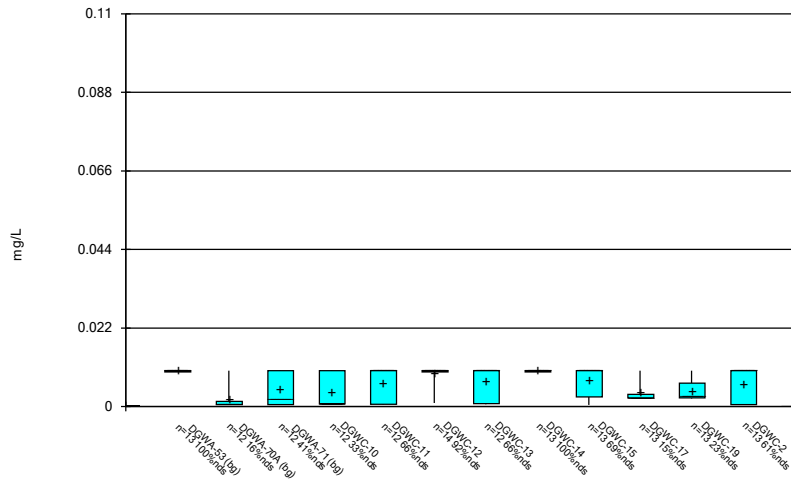
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



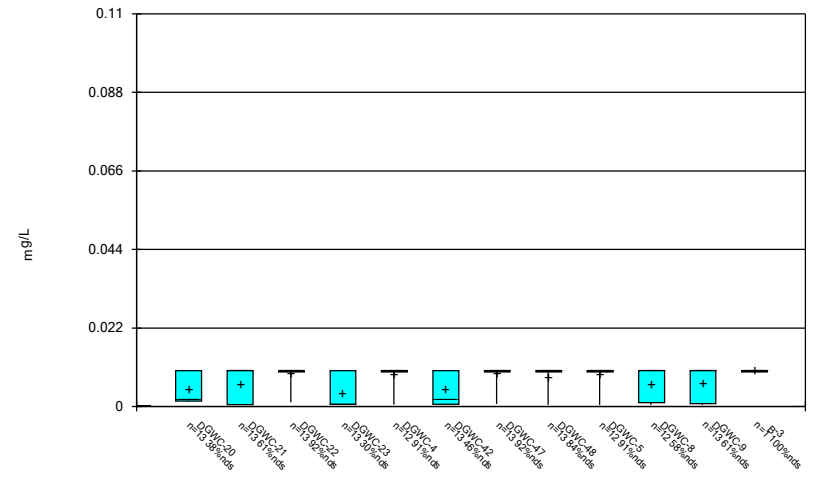
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



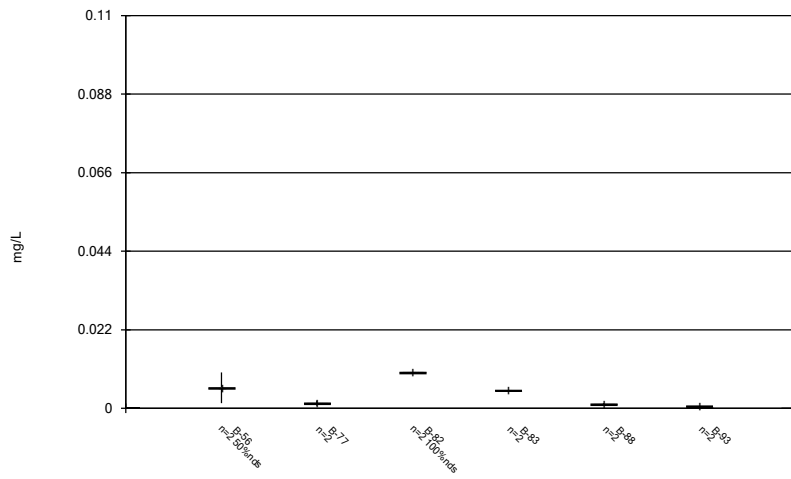
Constituent: Chromium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



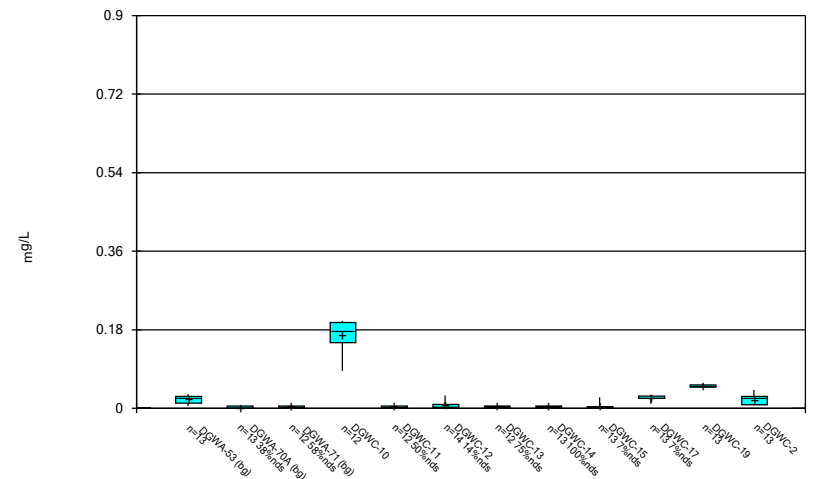
Constituent: Chromium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



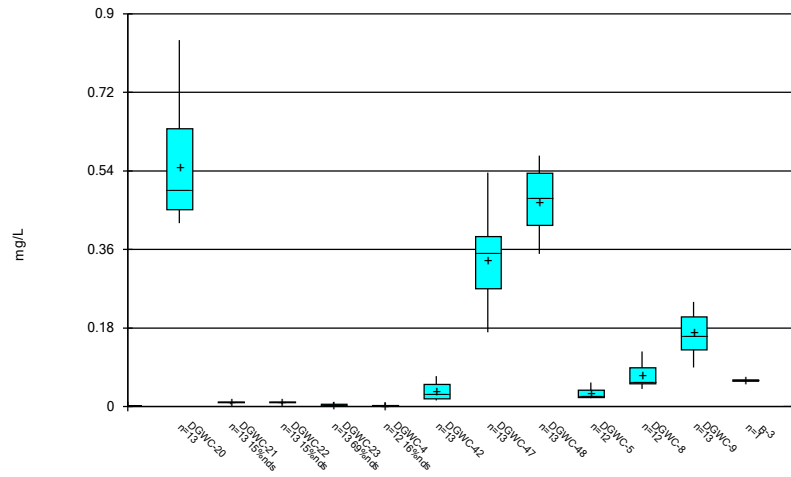
Constituent: Chromium Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



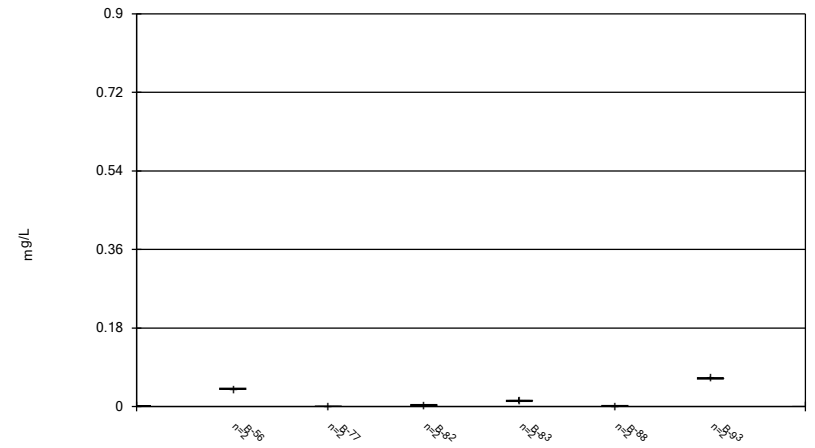
Constituent: Cobalt Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



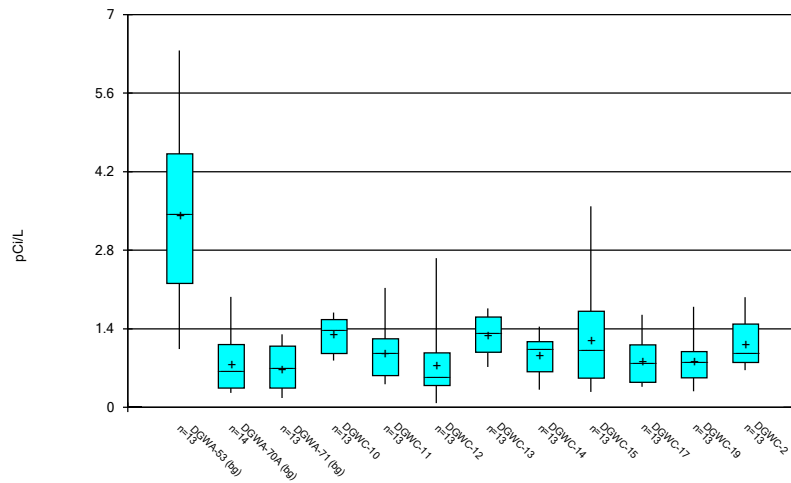
Constituent: Cobalt Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



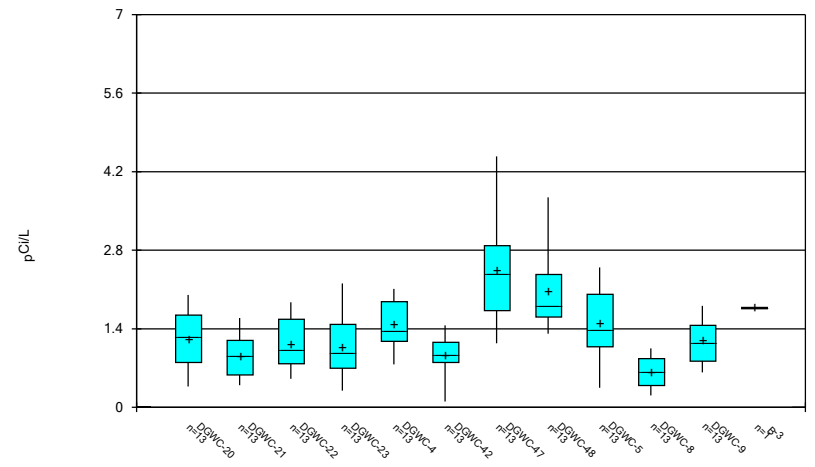
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



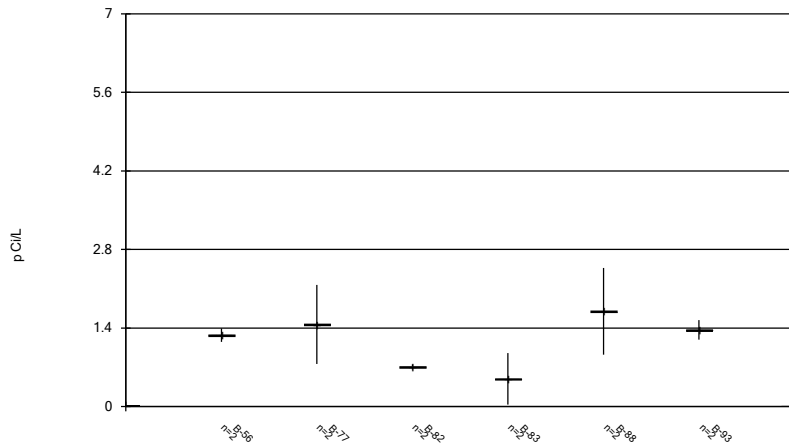
Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



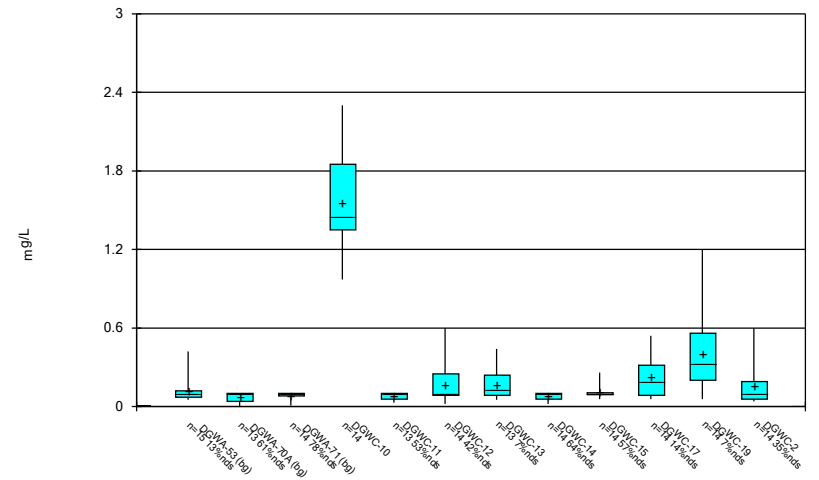
Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



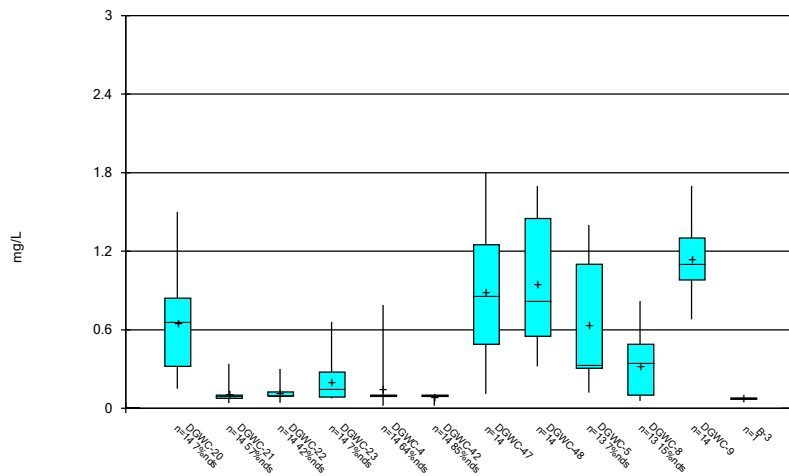
Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



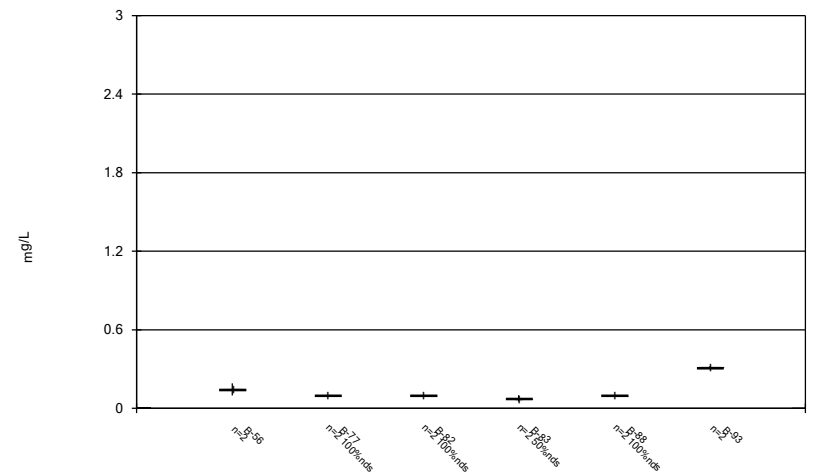
Constituent: Fluoride Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



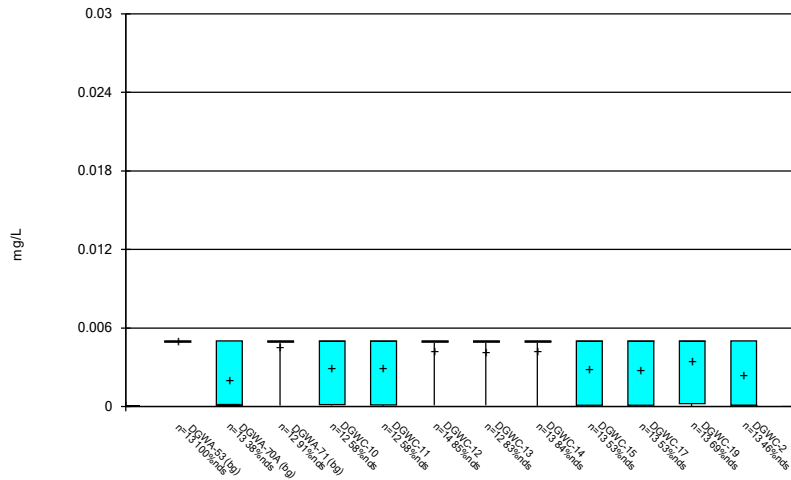
Constituent: Fluoride Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



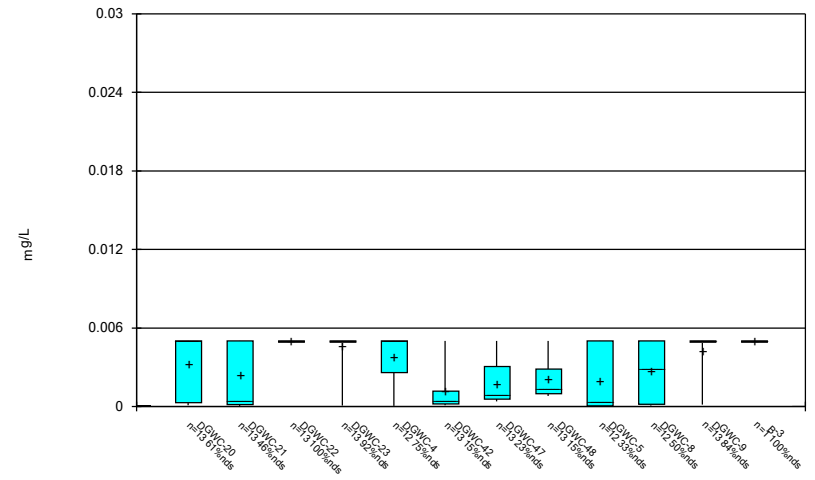
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



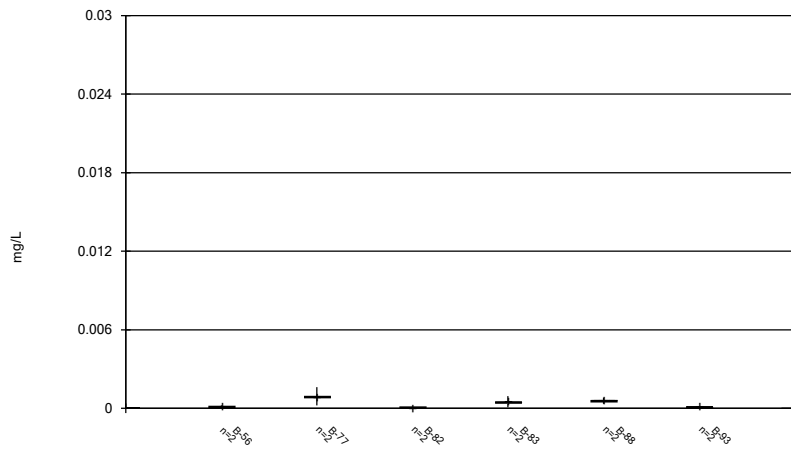
Constituent: Lead Analysis Run 11/4/2020 3:51 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



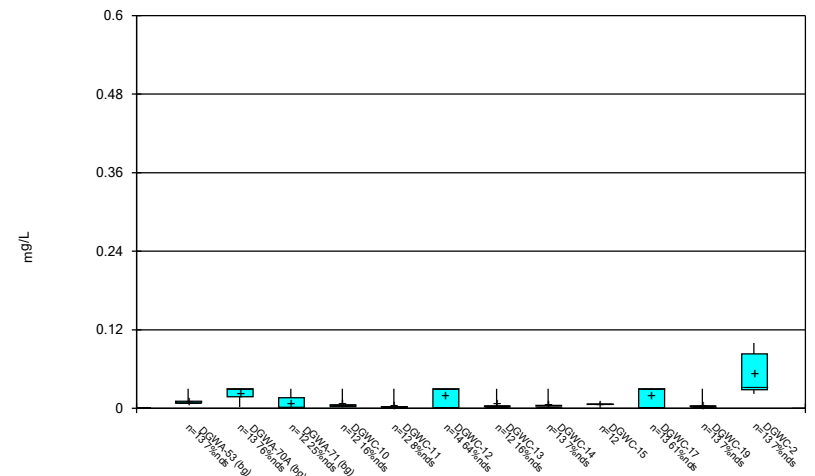
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



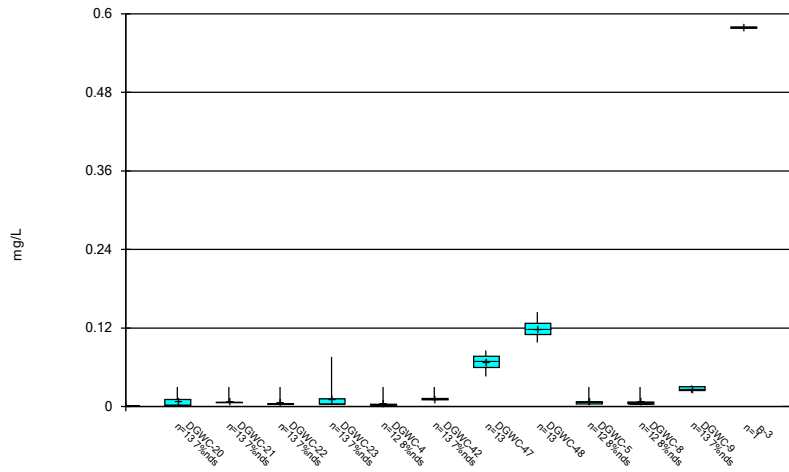
Constituent: Lead Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



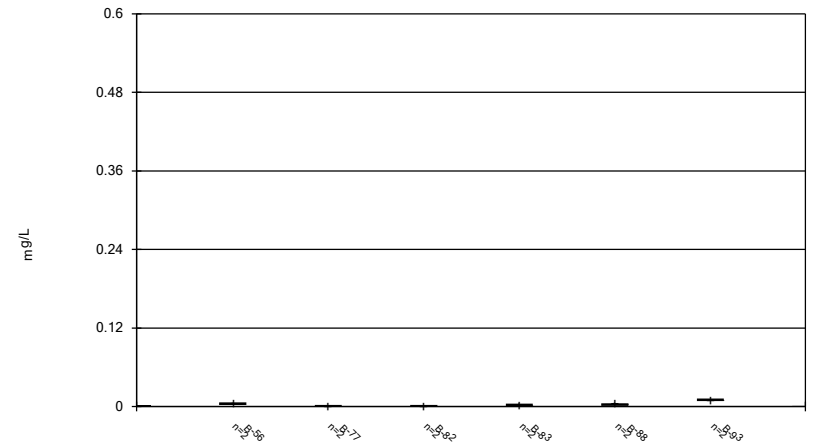
Constituent: Lithium Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



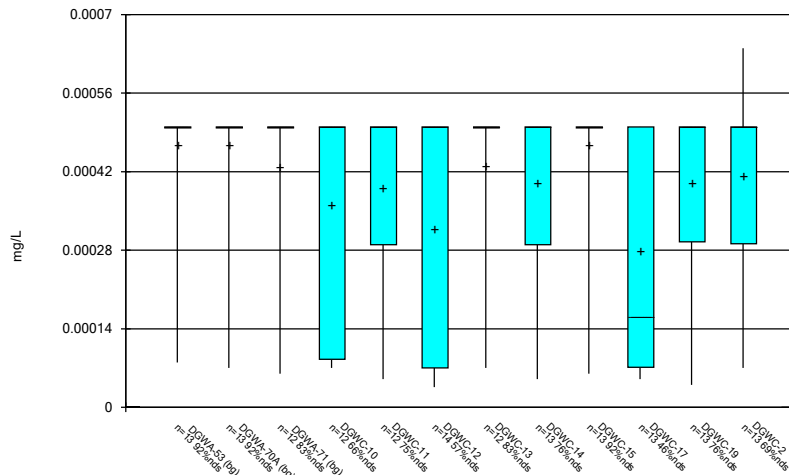
Constituent: Lithium Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



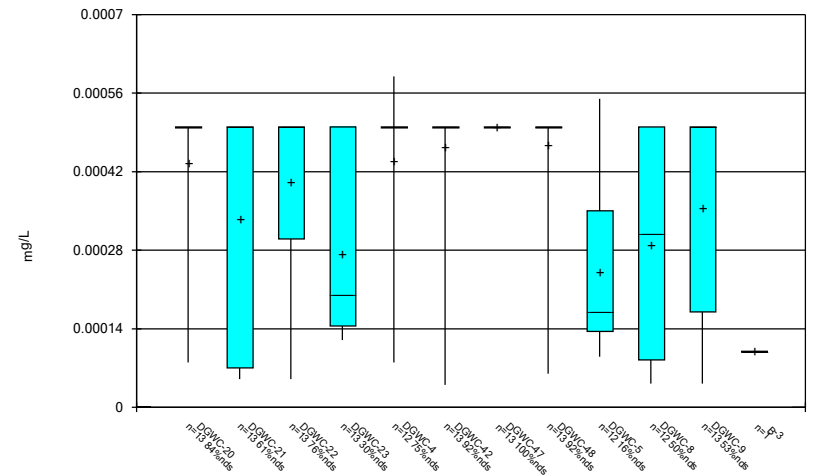
Constituent: Lithium Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



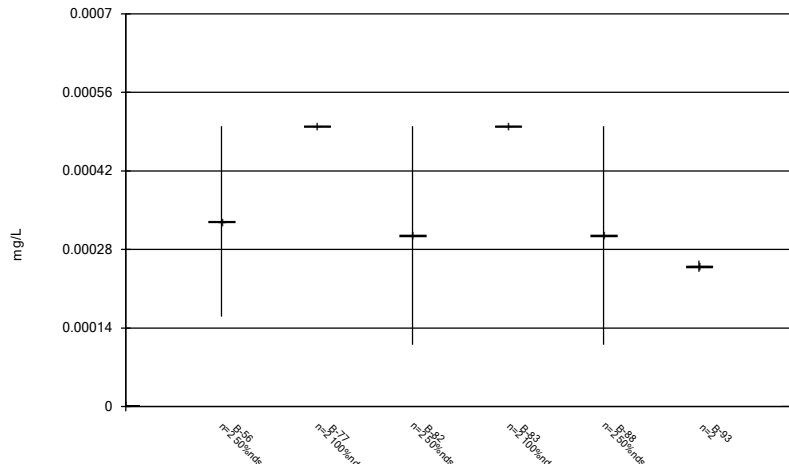
Constituent: Mercury Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



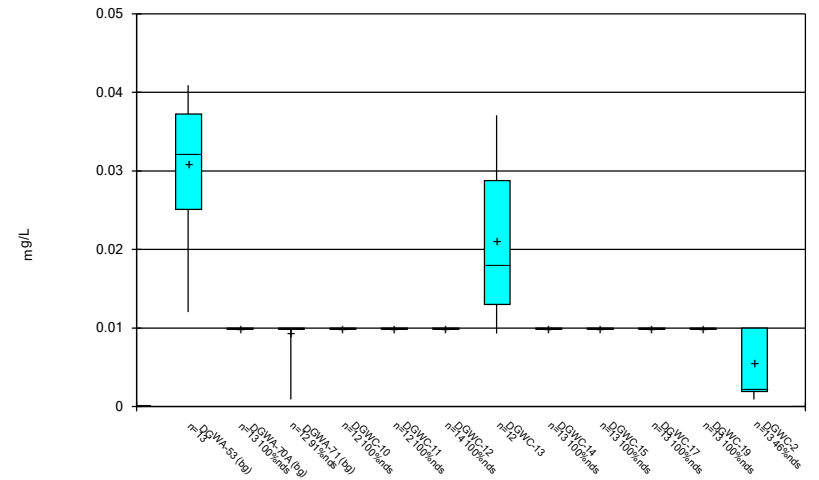
Constituent: Mercury Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



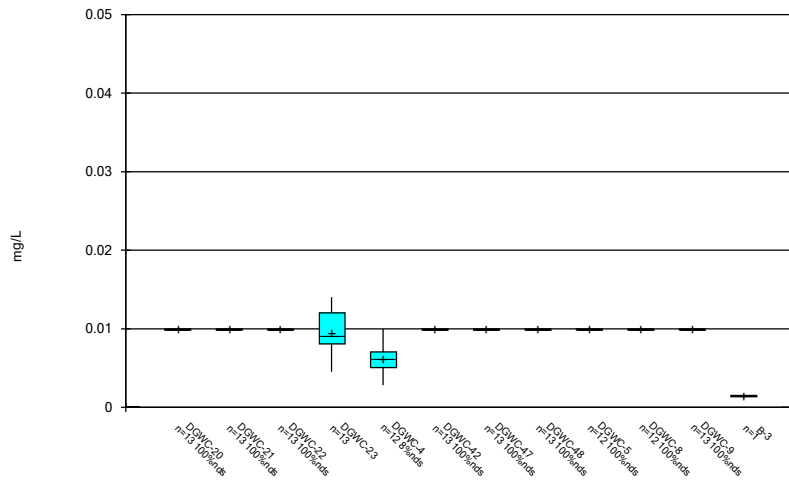
Constituent: Mercury Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



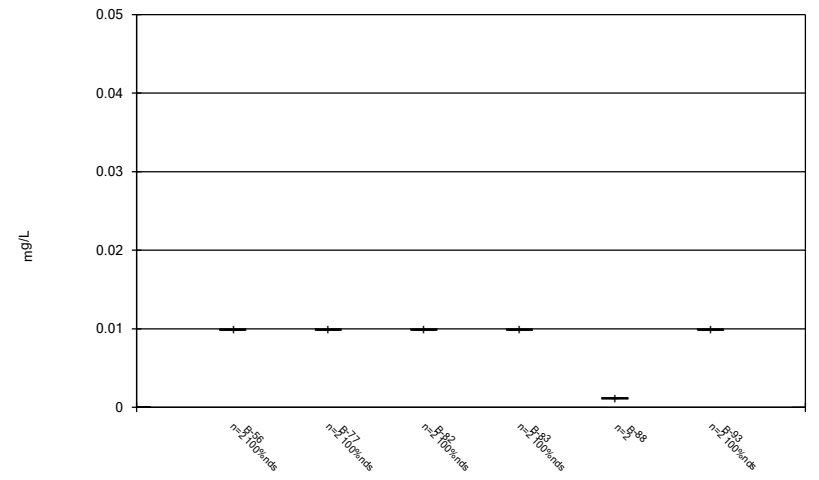
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



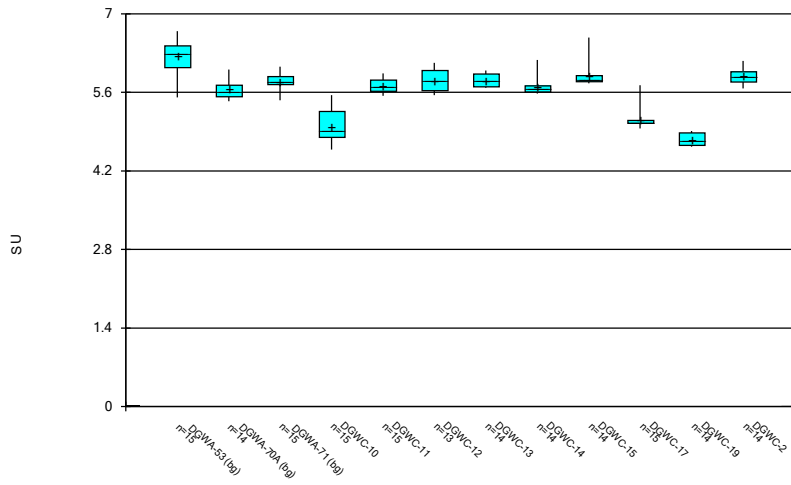
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



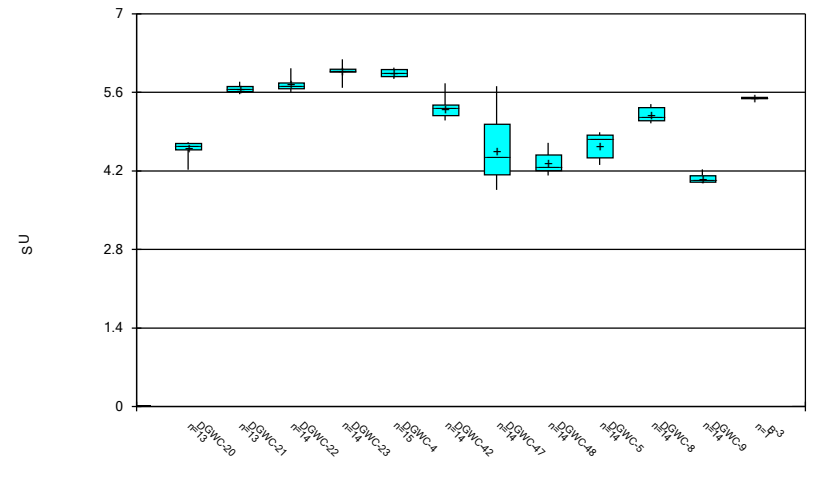
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



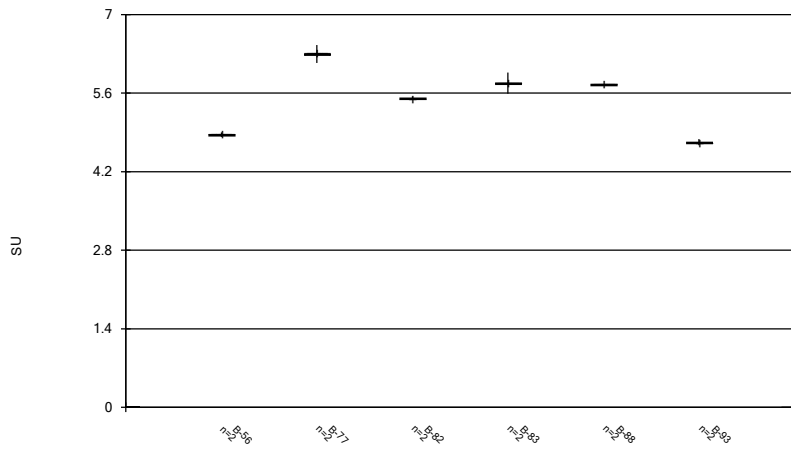
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



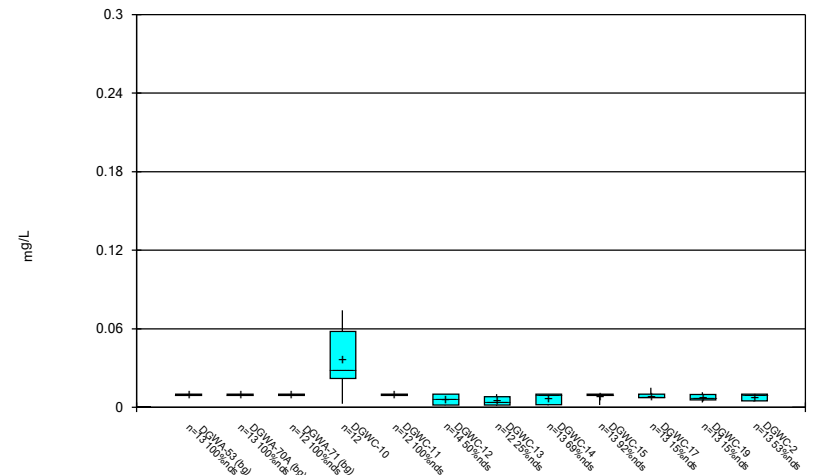
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



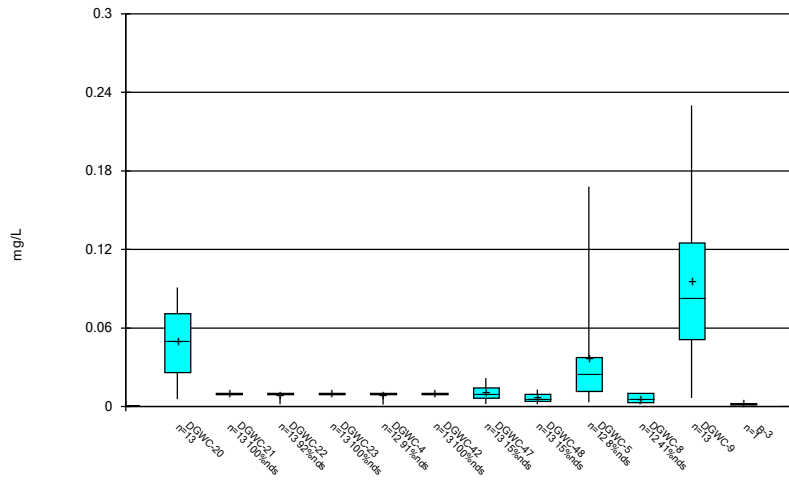
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



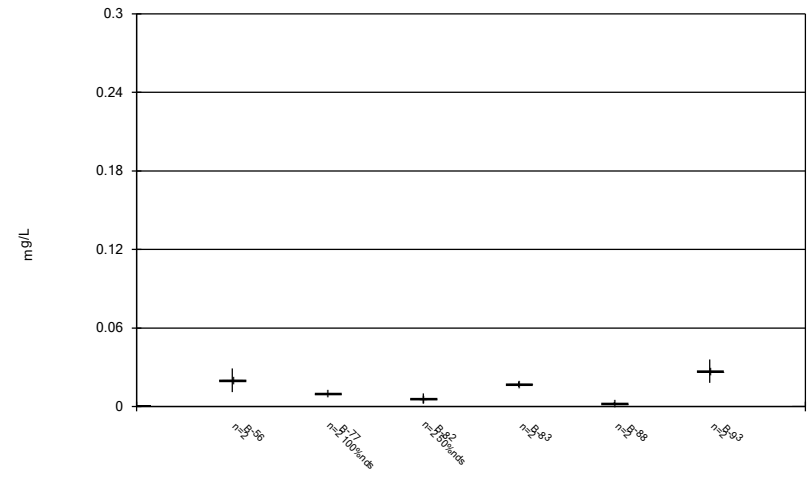
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



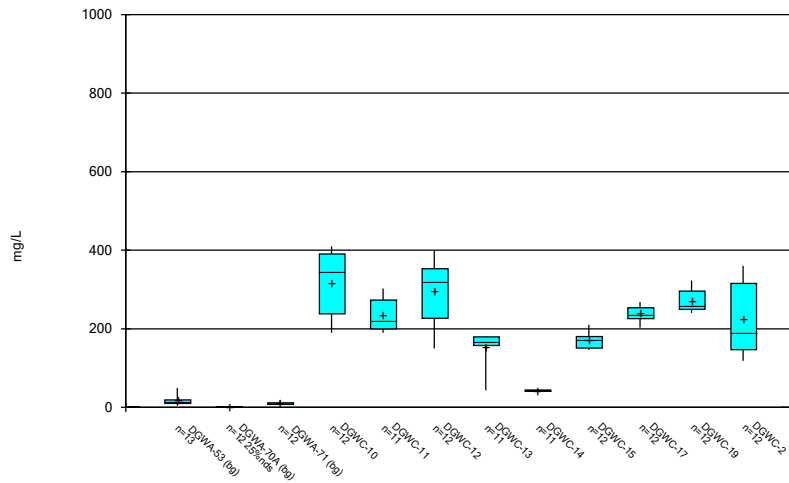
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



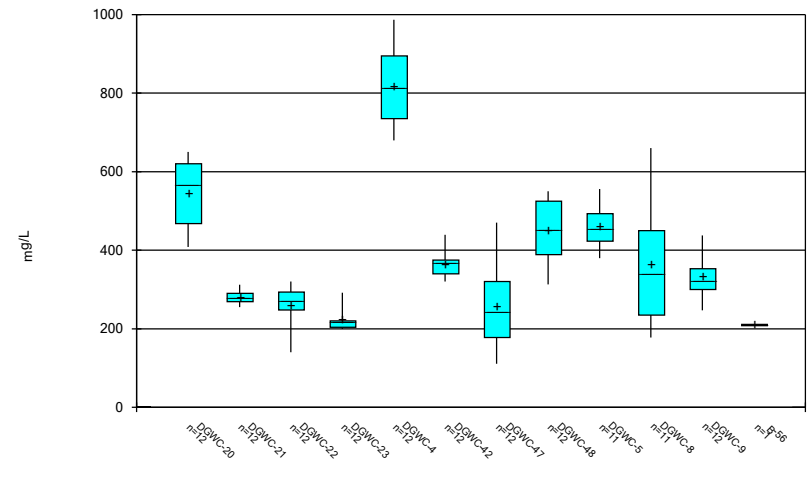
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



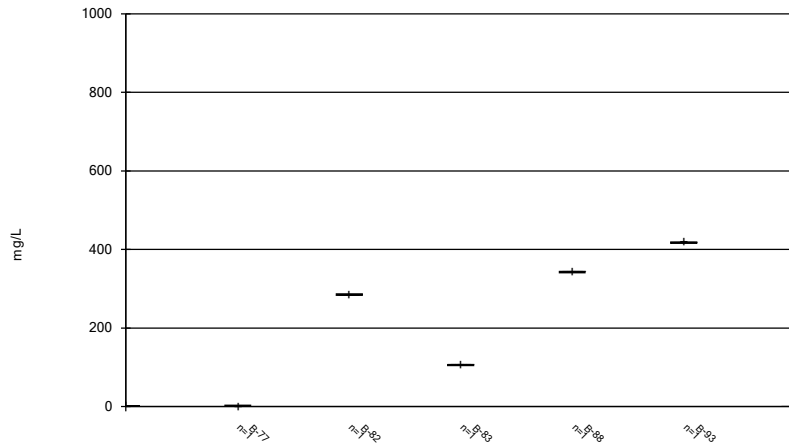
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



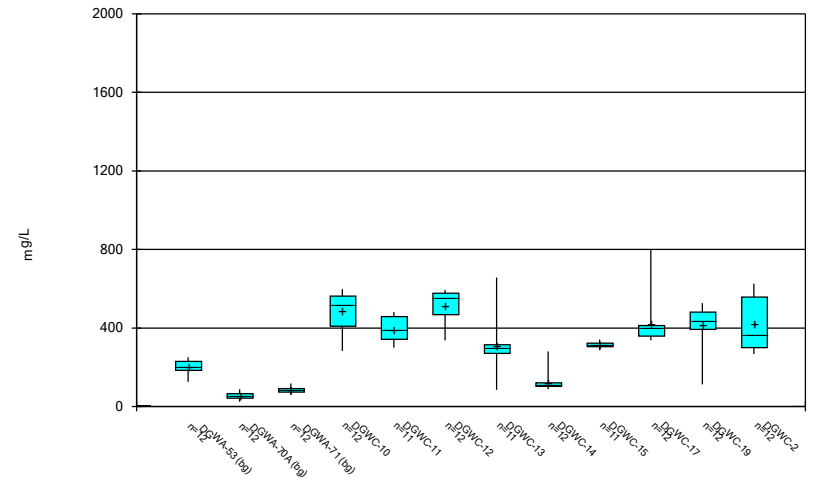
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



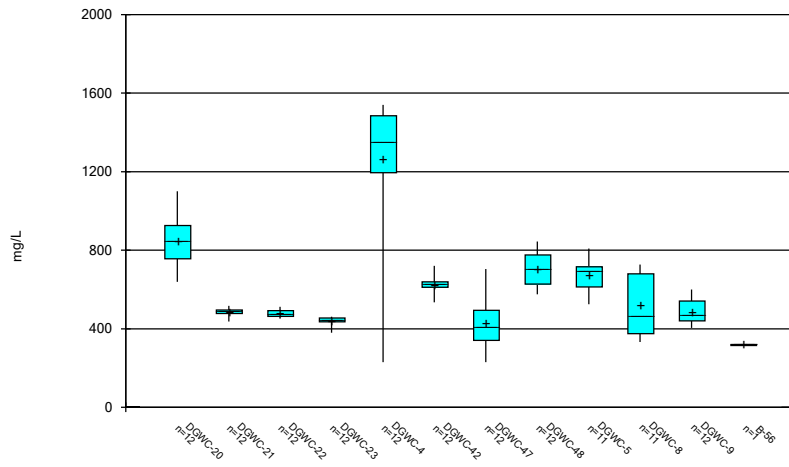
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



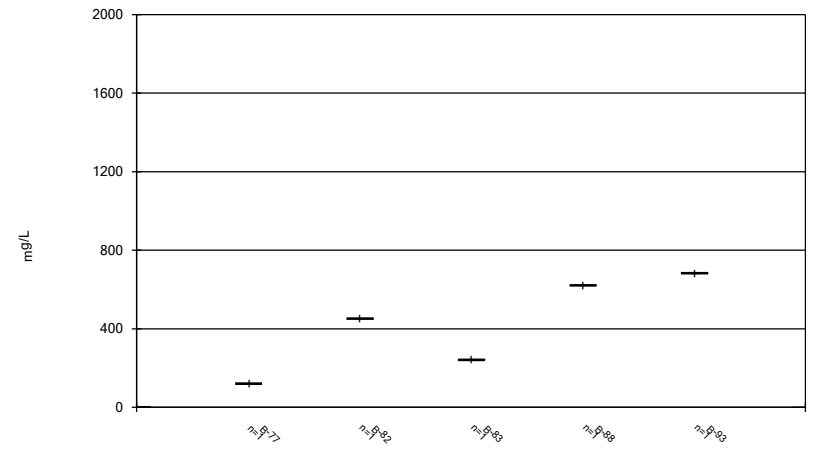
Constituent: TDS Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



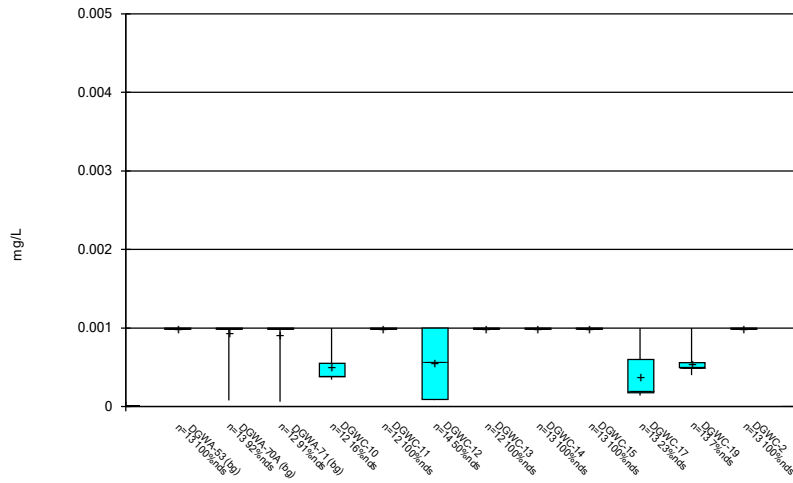
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



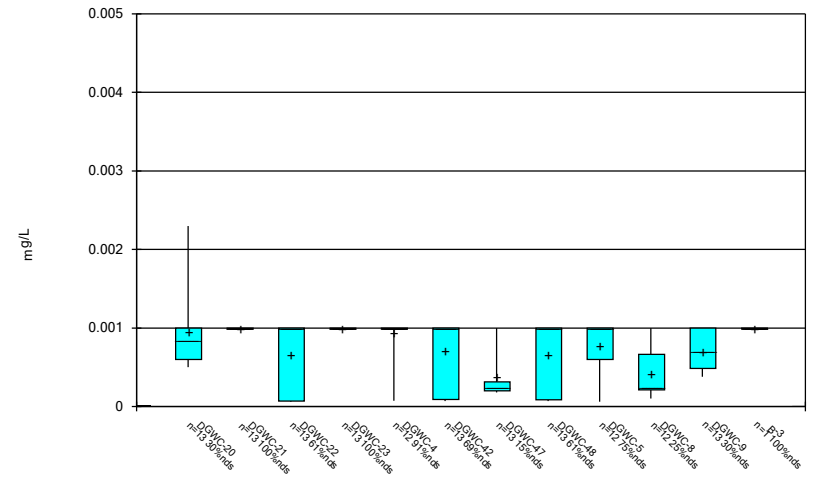
Constituent: TDS Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



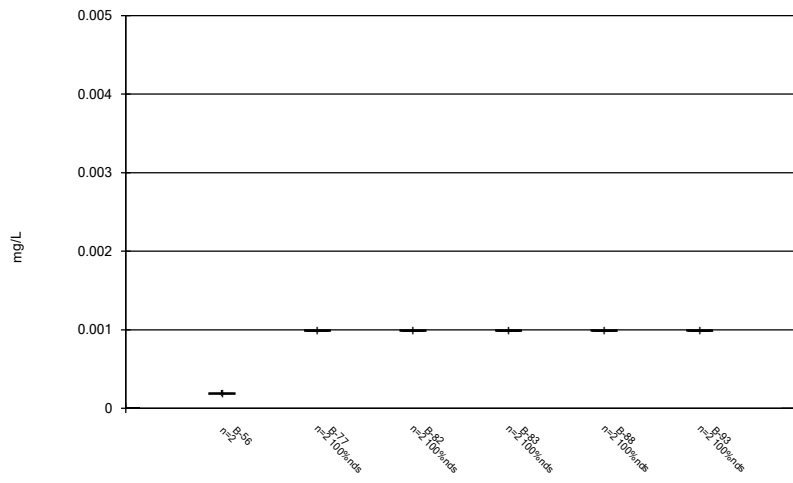
Constituent: Thallium Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/4/2020 3:52 PM View: Descriptive 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE C.

Outlier Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 3:30 PM

	DGWC-5 Barium (mg/L)	DGWC-10 Boron (mg/L)	DGWC-12 Chloride (mg/L)	DGWA-70A Chromium (mg/L)	DGWC-15 Lithium (mg/L)	DGWC-14 Sulfate (mg/L)	DGWA-53 TDS (mg/L)	DGWC-15 TDS (mg/L)
8/31/2016	0.0266 (o)							
12/7/2016		20 (o)						
3/29/2017	4.3 (o)				81 (o)			
7/12/2017							490 (o)	
10/24/2017						671 (o)		
11/6/2018	2.1 (o)							
11/7/2018				<0.05 (o)				
10/15/2019			0.034 (O)					

FIGURE D.

Interwell Prediction Limit Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	9/24/2020	0.45	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	9/22/2020	1.3	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	9/22/2020	4.2	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	9/23/2020	0.57	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	9/23/2020	1.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	9/24/2020	0.88	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	9/22/2020	2.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	9/23/2020	0.57	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	9/22/2020	4.9	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	9/24/2020	6.1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	9/24/2020	4.1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	9/24/2020	4.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	9/22/2020	4.3	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	9/22/2020	0.88	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-47	0.13	n/a	9/23/2020	0.21	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	9/23/2020	0.65	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	9/22/2020	4.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	9/23/2020	1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-9	0.13	n/a	9/22/2020	0.78	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40	n/a	9/24/2020	53.1	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40	n/a	9/22/2020	72.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-12	40	n/a	9/22/2020	55.4	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40	n/a	9/22/2020	103	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-2	40	n/a	9/23/2020	44.4	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40	n/a	9/22/2020	79.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40	n/a	9/24/2020	80	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40	n/a	9/24/2020	62.6	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40	n/a	9/24/2020	73.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40	n/a	9/22/2020	263	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-42	40	n/a	9/22/2020	43.8	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40	n/a	9/23/2020	72.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40	n/a	9/22/2020	99.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-9	40	n/a	9/22/2020	54.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	4.5	n/a	9/24/2020	5.9	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-11	4.5	n/a	9/22/2020	16	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-12	4.5	n/a	9/22/2020	10.8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-13	4.5	n/a	9/23/2020	12.6	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-15	4.5	n/a	9/23/2020	22.4	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-17	4.5	n/a	9/24/2020	22.7	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-19	4.5	n/a	9/22/2020	27.6	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-20	4.5	n/a	9/22/2020	25.8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-21	4.5	n/a	9/24/2020	20	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-22	4.5	n/a	9/24/2020	21.5	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-23	4.5	n/a	9/24/2020	13.7	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-4	4.5	n/a	9/22/2020	17	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-42	4.5	n/a	9/22/2020	22.1	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-48	4.5	n/a	9/23/2020	8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-5	4.5	n/a	9/22/2020	10.5	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-8	4.5	n/a	9/23/2020	9.1	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-9	4.5	n/a	9/22/2020	8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limit Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-10	0.42	n/a	9/24/2020	0.97	Yes	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-9	0.42	n/a	9/22/2020	0.99	Yes	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
pH (SU)	DGWC-10	6.6	5.2	9/24/2020	4.89	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-17	6.6	5.2	9/24/2020	5.1	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-19	6.6	5.2	9/22/2020	4.91	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-20	6.6	5.2	9/22/2020	4.66	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-47	6.6	5.2	9/23/2020	4.4	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-48	6.6	5.2	9/23/2020	4.64	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-5	6.6	5.2	9/22/2020	4.83	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-9	6.6	5.2	9/22/2020	4	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-10	36	n/a	9/24/2020	204	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-11	36	n/a	9/22/2020	267	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-12	36	n/a	9/22/2020	183	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-13	36	n/a	9/23/2020	134	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-14	36	n/a	9/22/2020	40.2	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-15	36	n/a	9/23/2020	146	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-17	36	n/a	9/24/2020	259	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-19	36	n/a	9/22/2020	310	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-2	36	n/a	9/23/2020	122	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-20	36	n/a	9/22/2020	408	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-21	36	n/a	9/24/2020	269	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-22	36	n/a	9/24/2020	262	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-23	36	n/a	9/24/2020	215	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-4	36	n/a	9/22/2020	800	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-42	36	n/a	9/22/2020	320	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-47	36	n/a	9/23/2020	111	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-48	36	n/a	9/23/2020	313	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-5	36	n/a	9/22/2020	423	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-8	36	n/a	9/23/2020	178	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-9	36	n/a	9/22/2020	282	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-11	320	n/a	9/22/2020	481	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-12	320	n/a	9/22/2020	338	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-17	320	n/a	9/24/2020	411	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-19	320	n/a	9/22/2020	513	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-20	320	n/a	9/22/2020	724	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-21	320	n/a	9/24/2020	494	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-22	320	n/a	9/24/2020	455	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-23	320	n/a	9/24/2020	456	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-4	320	n/a	9/22/2020	1400	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-42	320	n/a	9/22/2020	547	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-48	320	n/a	9/23/2020	575	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-5	320	n/a	9/22/2020	716	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-8	320	n/a	9/23/2020	333	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-9	320	n/a	9/22/2020	461	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limit Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	9/24/2020	0.45	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	9/22/2020	1.3	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	9/22/2020	4.2	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	9/23/2020	0.57	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-14	0.13	n/a	9/22/2020	0.086J	No	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	9/23/2020	1.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	9/24/2020	0.88	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	9/22/2020	2.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	9/23/2020	0.57	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	9/22/2020	4.9	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	9/24/2020	6.1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	9/24/2020	4.1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	9/24/2020	4.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	9/22/2020	4.3	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	9/22/2020	0.88	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-47	0.13	n/a	9/23/2020	0.21	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	9/23/2020	0.65	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	9/22/2020	4.6	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	9/23/2020	1	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-9	0.13	n/a	9/22/2020	0.78	Yes	35	n/a	n/a	22.86	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40	n/a	9/24/2020	53.1	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40	n/a	9/22/2020	72.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-12	40	n/a	9/22/2020	55.4	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40	n/a	9/23/2020	39	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-14	40	n/a	9/22/2020	11.6	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-15	40	n/a	9/23/2020	35.6	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-17	40	n/a	9/24/2020	12.7	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40	n/a	9/22/2020	103	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-2	40	n/a	9/23/2020	44.4	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40	n/a	9/22/2020	79.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40	n/a	9/24/2020	80	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40	n/a	9/24/2020	62.6	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40	n/a	9/24/2020	73.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40	n/a	9/22/2020	263	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-42	40	n/a	9/22/2020	43.8	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-47	40	n/a	9/23/2020	22.3	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40	n/a	9/23/2020	72.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40	n/a	9/22/2020	99.2	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-8	40	n/a	9/23/2020	39.3	No	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-9	40	n/a	9/22/2020	54.7	Yes	35	n/a	n/a	5.714	n/a	n/a	0.001342	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	4.5	n/a	9/24/2020	5.9	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-11	4.5	n/a	9/22/2020	16	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-12	4.5	n/a	9/22/2020	10.8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-13	4.5	n/a	9/23/2020	12.6	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-14	4.5	n/a	9/22/2020	3.2	No	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-15	4.5	n/a	9/23/2020	22.4	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-17	4.5	n/a	9/24/2020	22.7	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-19	4.5	n/a	9/22/2020	27.6	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-2	4.5	n/a	9/23/2020	2.1	No	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-20	4.5	n/a	9/22/2020	25.8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limit Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	DGWC-21	4.5	n/a	9/24/2020	20	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-22	4.5	n/a	9/24/2020	21.5	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-23	4.5	n/a	9/24/2020	13.7	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-4	4.5	n/a	9/22/2020	17	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-42	4.5	n/a	9/22/2020	22.1	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-47	4.5	n/a	9/23/2020	3.3	No	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-48	4.5	n/a	9/23/2020	8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-5	4.5	n/a	9/22/2020	10.5	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-8	4.5	n/a	9/23/2020	9.1	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-9	4.5	n/a	9/22/2020	8	Yes	37	1.634	0.2181	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Fluoride (mg/L)	DGWC-10	0.42	n/a	9/24/2020	0.97	Yes	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-11	0.42	n/a	9/22/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-12	0.42	n/a	9/22/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-13	0.42	n/a	9/23/2020	0.058J	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-14	0.42	n/a	9/22/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-15	0.42	n/a	9/23/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-17	0.42	n/a	9/24/2020	0.056J	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-19	0.42	n/a	9/22/2020	0.084J	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-2	0.42	n/a	9/23/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	9/22/2020	0.15	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-21	0.42	n/a	9/24/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-22	0.42	n/a	9/24/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-23	0.42	n/a	9/24/2020	0.075J	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-4	0.42	n/a	9/22/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-42	0.42	n/a	9/22/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	9/23/2020	0.11	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	9/23/2020	0.32	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-5	0.42	n/a	9/22/2020	0.12	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-8	0.42	n/a	9/23/2020	0.1ND	No	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-9	0.42	n/a	9/22/2020	0.99	Yes	42	n/a	n/a	50	n/a	n/a	0.0009901	NP Inter (normality) 1 of 2
pH (SU)	DGWC-10	6.6	5.2	9/24/2020	4.89	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-11	6.6	5.2	9/22/2020	5.54	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-12	6.6	5.2	9/22/2020	6	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-13	6.6	5.2	9/23/2020	5.72	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-14	6.6	5.2	9/22/2020	5.7	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-15	6.6	5.2	9/23/2020	5.85	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-17	6.6	5.2	9/24/2020	5.1	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-19	6.6	5.2	9/22/2020	4.91	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-2	6.6	5.2	9/23/2020	5.99	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-20	6.6	5.2	9/22/2020	4.66	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-21	6.6	5.2	9/24/2020	5.64	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-22	6.6	5.2	9/24/2020	5.69	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-23	6.6	5.2	9/24/2020	6.19	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-4	6.6	5.2	9/22/2020	5.88	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-42	6.6	5.2	9/22/2020	5.76	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-47	6.6	5.2	9/23/2020	4.4	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-48	6.6	5.2	9/23/2020	4.64	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-5	6.6	5.2	9/22/2020	4.83	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-8	6.6	5.2	9/23/2020	5.21	No	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-9	6.6	5.2	9/22/2020	4	Yes	44	5.903	0.3302	0	None	No	0.0001881	Param Inter 1 of 2

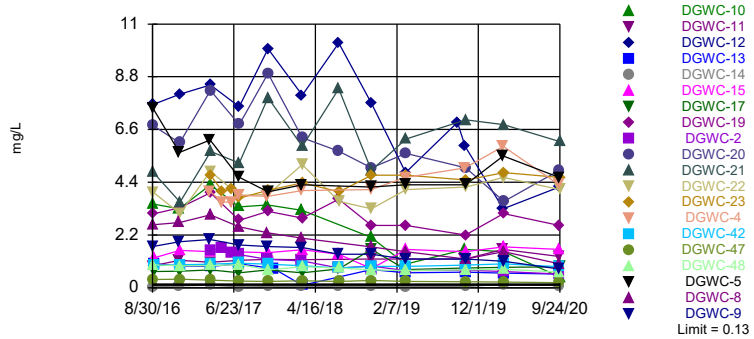
Interwell Prediction Limit Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	DGWC-10	36	n/a	9/24/2020	204	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-11	36	n/a	9/22/2020	267	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-12	36	n/a	9/22/2020	183	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-13	36	n/a	9/23/2020	134	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-14	36	n/a	9/22/2020	40.2	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-15	36	n/a	9/23/2020	146	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-17	36	n/a	9/24/2020	259	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-19	36	n/a	9/22/2020	310	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-2	36	n/a	9/23/2020	122	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-20	36	n/a	9/22/2020	408	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-21	36	n/a	9/24/2020	269	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-22	36	n/a	9/24/2020	262	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-23	36	n/a	9/24/2020	215	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-4	36	n/a	9/22/2020	800	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-42	36	n/a	9/22/2020	320	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-47	36	n/a	9/23/2020	111	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-48	36	n/a	9/23/2020	313	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-5	36	n/a	9/22/2020	423	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-8	36	n/a	9/23/2020	178	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-9	36	n/a	9/22/2020	282	Yes	37	2.639	1.476	8.108	None	sqrt(x)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-10	320	n/a	9/24/2020	283	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-11	320	n/a	9/22/2020	481	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-12	320	n/a	9/22/2020	338	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-13	320	n/a	9/23/2020	278	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-14	320	n/a	9/22/2020	105	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-15	320	n/a	9/23/2020	317	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-17	320	n/a	9/24/2020	411	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-19	320	n/a	9/22/2020	513	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-2	320	n/a	9/23/2020	267	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-20	320	n/a	9/22/2020	724	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-21	320	n/a	9/24/2020	494	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-22	320	n/a	9/24/2020	455	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-23	320	n/a	9/24/2020	456	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-4	320	n/a	9/22/2020	1400	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-42	320	n/a	9/22/2020	547	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-47	320	n/a	9/23/2020	229	No	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-48	320	n/a	9/23/2020	575	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-5	320	n/a	9/22/2020	716	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-8	320	n/a	9/23/2020	333	Yes	36	4.642	0.9577	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-9	320	n/a	9/22/2020	461	Yes	36	4.642	0.9577	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

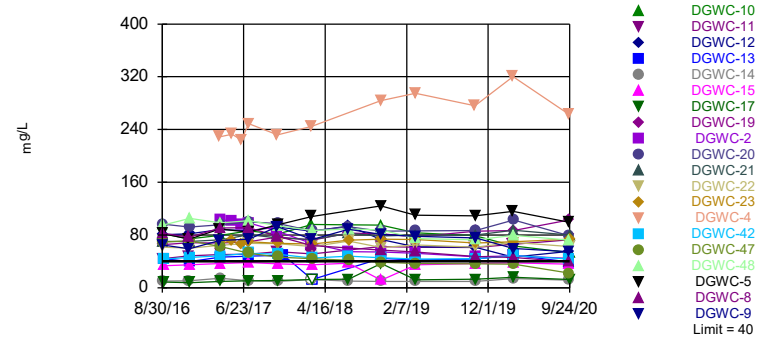


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 35 background values. 22.86% NDs. Annual per-constituent alpha = 0.0523. Individual comparison alpha = 0.001342 (1 of 2). Comparing 20 points to limit.

Constituent: Boron Analysis Run 11/4/2020 3:33 PM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-19, DGWC-2, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4...

Prediction Limit
Interwell Non-parametric

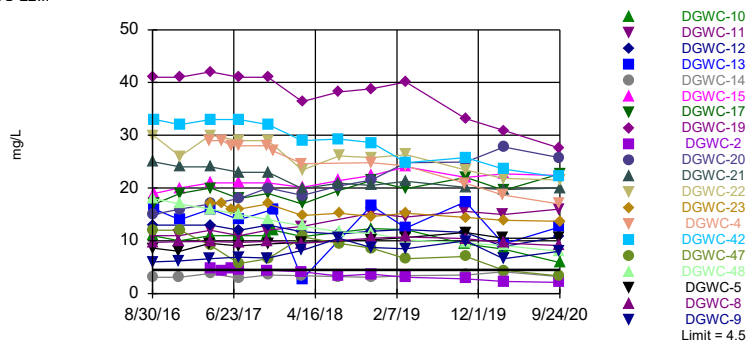


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 35 background values. 5.714% NDs. Annual per-constituent alpha = 0.0523. Individual comparison alpha = 0.001342 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium Analysis Run 11/4/2020 3:33 PM View: Interwell PLs 2-3-4
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

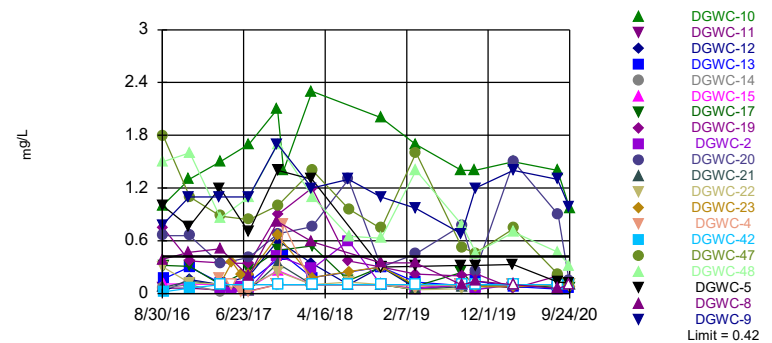


Background Data Summary (based on square root transformation): Mean=1.634, Std. Dev.=0.2181, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9429, critical = 0.914. Kappa = 2.268 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Chloride Analysis Run 11/4/2020 3:33 PM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-9

Prediction Limit
Interwell Non-parametric

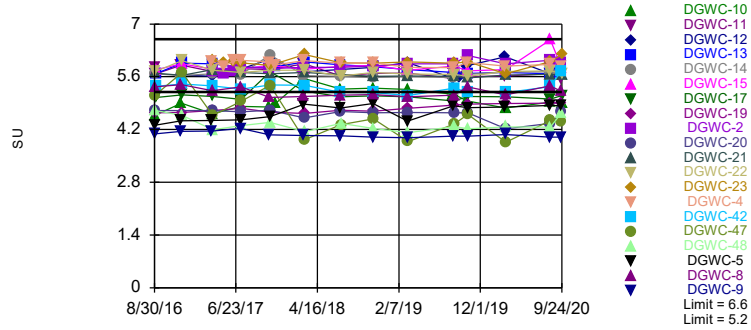


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. 50% NDs. Annual per-constituent alpha = 0.03885. Individual comparison alpha = 0.0009901 (1 of 2). Comparing 20 points to limit.

Constituent: Fluoride Analysis Run 11/4/2020 3:33 PM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limits: DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-47, DGWC-48, DGWC-5, DGWC-9

Prediction Limit
Interwell Parametric

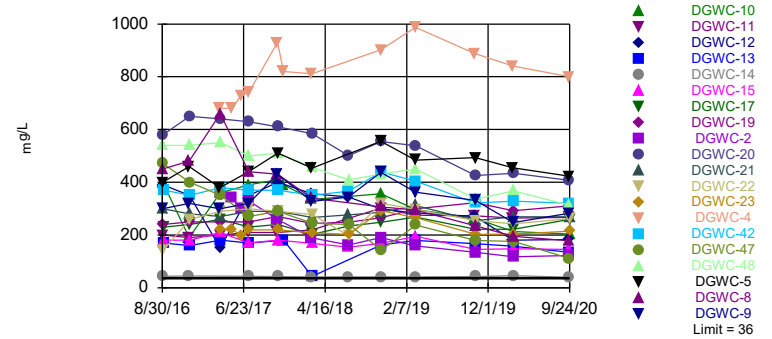


Background Data Summary: Mean=5.903, Std. Dev.=0.3302, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9275, critical = 0.924. Kappa = 2.232 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001881. Comparing 20 points to limit.

Constituent: pH Analysis Run 11/4/2020 3:33 PM View: Interwell PLs 2-3-4
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

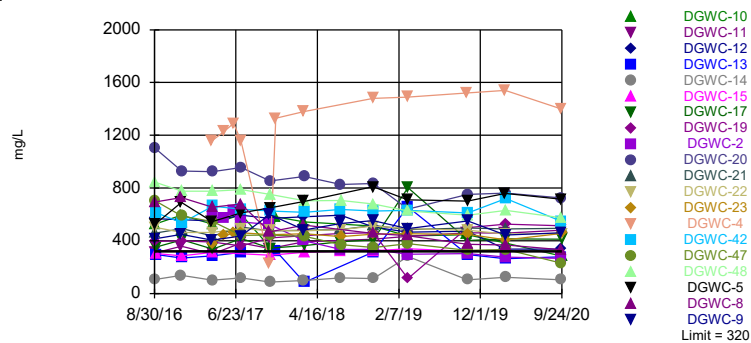


Background Data Summary (based on square root transformation): Mean=2.639, Std. Dev.=1.476, n=37, 8.108% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9367, critical = 0.914. Kappa = 2.268 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Sulfate Analysis Run 11/4/2020 3:33 PM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-11, DGWC-12, 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=4.642, Std. Dev.=0.9577, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9221, critical = 0.912. Kappa = 2.275 (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: TDS Analysis Run 11/4/2020 3:33 PM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-10	DGWC-5	DGWC-14	DGWC-11	DGWC-47	DGWC-12	DGWC-19
8/30/2016	1.72	2.63							
8/31/2016			3.5	7.5	0.0419 (J)	0.914			
9/1/2016							0.345	7.64	3.08
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	1.92	2.72	3.3	5.64	0.0804	1.15			
12/7/2016								8.07	3.34
12/8/2016							0.352		
3/28/2017	2.01			6.16					
3/29/2017		3.04	4.3		0.103	1.07		8.46	3.96
3/30/2017									
3/31/2017							0.312		
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	1.78	2.55		4.61					
7/12/2017			3.38		0.044	1.14		7.55	2.82
7/13/2017							0.28		
8/8/2017									
10/24/2017	1.72	2.29	3.45			1.18			
10/25/2017				4	0.0565			9.97	3.19
10/26/2017							0.269		
11/15/2017									
2/27/2018	1.68	2.07	3.23	4.29	0.0539	1.17		8.03	
2/28/2018									2.91
3/1/2018							0.296		
3/2/2018									
3/8/2018									
7/11/2018	1.4				0.057			10.2	3.7
7/12/2018							0.26		
11/6/2018	1.4	1.7	2.1	4.2		1.2			
11/7/2018					0.055		0.3	7.7	2.6
11/8/2018									
3/12/2019	1.2	1.5	0.98	4.3		1.2		4.8	
3/13/2019					0.047				2.6
3/14/2019							0.26		
9/17/2019								6.9	
10/15/2019			1.6			1.2		5.9	
10/16/2019		1.2		4.3	0.052				2.2
10/17/2019	1.2						0.25		
10/18/2019									
3/2/2020				5.5		1.6		3.3	
3/3/2020	1.1	1.5	1.5		0.15				3.1
3/4/2020							0.24		
3/9/2020									
9/22/2020	0.78			4.6	0.086 (J)	1.3		4.2	2.6
9/23/2020		1					0.21		
9/24/2020			0.45						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWA-70A (bg)
8/30/2016									
8/31/2016									
9/1/2016	0.955								
9/2/2016		4.81	3.99	6.77					
9/6/2016					1.25	1			
9/7/2016							0.683	0.924	
12/6/2016									
12/7/2016				6.04	1.56	0.9			
12/8/2016	0.919	3.57	3.1				0.688	0.957	
3/28/2017									0.0067 (J)
3/29/2017			4.85	8.23					
3/30/2017	0.925	5.68			1.5	0.898	0.743		
3/31/2017								0.989	
5/11/2017									
5/12/2017									
5/15/2017									0.0073 (J)
6/15/2017									<0.1
6/16/2017									
7/11/2017									<0.1
7/12/2017		5.2		6.81	1.49	0.996	0.62		
7/13/2017	0.972		3.85					1.03	
8/8/2017									<0.1
10/24/2017									0.0082 (J)
10/25/2017		7.92	3.9	8.94	1.47		0.739	0.982	
10/26/2017	0.746								
11/15/2017						0.795			
2/27/2018									0.0062 (J)
2/28/2018		5.89	5.14	6.26	1.58	0.106	0.627	0.918	
3/1/2018									
3/2/2018	0.878								
3/8/2018									
7/11/2018		8.3		5.7	1.4		0.79	0.83	
7/12/2018	0.82		3.6						
11/6/2018									<0.04 (J)
11/7/2018	0.74	4.9	3.3	5	0.8	0.76	1.6	0.89	
11/8/2018									
3/12/2019									0.0073 (J)
3/13/2019		6.2		5.6		0.62	0.76		
3/14/2019	0.72		4.1		1.6			0.89	
9/17/2019									
10/15/2019									<0.1
10/16/2019						0.65			
10/17/2019		7		5	1.5			0.94	
10/18/2019	0.74		4.2				0.82		
3/2/2020									0.0055 (J)
3/3/2020		6.8	4.6		1.7	0.61			
3/4/2020	0.77			3.6			0.85	1	
3/9/2020									
9/22/2020				4.9				0.88	<0.1
9/23/2020	0.65				1.6	0.57			
9/24/2020		6.1	4.1				0.88		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (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	4.01	0.0097 (J)	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	0.0082 (J)		4.03	
5/15/2017					
6/15/2017	3.58		0.0725	4.11	1.44
6/16/2017		0.0085 (J)			
7/11/2017	3.85	0.0077 (J)			1.39
7/12/2017			0.0735	3.74	
7/13/2017					
8/8/2017					
10/24/2017	3.82	0.0083 (J)	0.077		1.18
10/25/2017					
10/26/2017				4.07	
11/15/2017					
2/27/2018	4.06	0.0069 (J)			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	4.1	<0.04 (J)			0.9
11/7/2018			0.073		
11/8/2018				4.7	
3/12/2019	4.6	0.0068 (J)			0.72
3/13/2019			0.08		
3/14/2019				4.7	
9/17/2019					
10/15/2019	5	0.0054 (J)			
10/16/2019			0.059		
10/17/2019					0.73
10/18/2019				4.5	
3/2/2020	5.9	0.01 (J)			
3/3/2020					0.68
3/4/2020				4.8	
3/9/2020			0.08 (J)		
9/22/2020	4.3	<0.1	0.056 (J)		
9/23/2020					0.57
9/24/2020				4.6	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-10	DGWC-5	DGWC-11	DGWC-12	DGWC-19	DGWC-48
8/30/2016	82.7	64.9							
8/31/2016			9.95	81.7	82.6	44.2			
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	10.4	74.2	73.9	48.3			
12/7/2016							82.1	68.3	
12/8/2016									105
3/28/2017		71.6			89.1				
3/29/2017	90.5		14.4	79.5		50.5	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			10.5	86.3		50.8	87	70	
7/13/2017									102
8/8/2017									
10/24/2017	78.1	92.5		81.5		55			
10/25/2017			9.67		95.6		92.1	77	
10/26/2017									94
11/15/2017									
2/27/2018	64.2	73.1	<25	96.2	108	51.4	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		94.8	124	62.6			
11/7/2018			9.7				73.3	81.7	88
11/8/2018									
3/12/2019	54.3	78.1		83.5	110	61.4	62.1		
3/13/2019			9.7					76.9	
3/14/2019									74.6
10/15/2019				79.1		61.2	61.4		
10/16/2019	47.3		9.4		109			85.7	
10/17/2019		75.6							
10/18/2019									72.7
3/2/2020					116	65.8	46.5		
3/3/2020	46	59.5	14	63.6				86.8	
3/4/2020									79.7
3/9/2020									
9/22/2020		54.7	11.6		99.2	72.7	55.4	103	
9/23/2020	39.3								72.2
9/24/2020				53.1					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	69.3								
9/2/2016		70.2	61.6	96.3					
9/6/2016					33.6	44			
9/7/2016							43.6	8.61	
12/6/2016									
12/7/2016				91.9	34.7	39.8			
12/8/2016	71.1	70.1	60.1				45.8	7.92	
3/28/2017									8.31
3/29/2017			64.7	95.7					
3/30/2017		72.5			36.9	46.3		9.56	
3/31/2017	62.6						48.3		
5/11/2017									
5/12/2017									8.04
5/15/2017									
6/15/2017									
6/16/2017									7.66
7/11/2017									7.71
7/12/2017		80.4		100	38.4	47.8		10.4	
7/13/2017	52.5		67.2				52.3		
8/8/2017									
10/24/2017									6.86
10/25/2017		75.6	66.8	97.3	36.2		50.9	10.9	
10/26/2017	46.7								
11/15/2017						49.3			
2/27/2018									<25
2/28/2018		73.2	62.3	86.3	35	<25	45.1	<25	
3/1/2018	44.2								
3/2/2018									
3/8/2018									
7/11/2018		82.3		92.4	37.5		47.8	13 (J)	
7/12/2018	41.6		71						
11/6/2018									5.7
11/7/2018	38.6	78.5	60.9	85.9	11.4	44.8	45.5	37	
11/8/2018									
3/12/2019									5.5
3/13/2019		79.9		86.4		42.1		11.9 (J)	
3/14/2019	36.6		64.8		34.7		43.5		
10/15/2019									5.1
10/16/2019						43.8			
10/17/2019	36.2	79.8		86.9	37		44.1		
10/18/2019			61.7					12.9	
3/2/2020									5.8
3/3/2020		87.4	68.7		37.8	49.3			
3/4/2020	36			103			48.8	15.8	
3/9/2020									
9/22/2020				79.2			43.8		5.4
9/23/2020	22.3				35.6	39			
9/24/2020		80	62.6					12.7	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	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	229	5.14	30.8		
3/29/2017					
3/30/2017				103	68.1
3/31/2017					
5/11/2017			35.8	102	
5/12/2017	233				71.1
5/15/2017		6.5			
6/15/2017	224	5.38	36	96.2	65.9
6/16/2017					
7/11/2017	249	5.96		98.4	
7/12/2017			40.3		70
7/13/2017					
8/8/2017		5.2			
10/24/2017	232	4.93	30.3	86	
10/25/2017					
10/26/2017					67.2
11/15/2017					
2/27/2018	245	<25		66.7	
2/28/2018					
3/1/2018					66.5
3/2/2018					
3/8/2018			39.8		
7/11/2018				55	
7/12/2018			34.7		72
11/6/2018	284	5.5		54.5	
11/7/2018			28.6		
11/8/2018					73.5
3/12/2019	295	5.1		52.2	
3/13/2019			26.7		
3/14/2019					73.2
10/15/2019	276	5.1			
10/16/2019			17.7		
10/17/2019				47.2	
10/18/2019					67.7
3/2/2020	320	5.3			
3/3/2020				48.4	
3/4/2020					69.8
3/9/2020			23.7		
9/22/2020	263	5	15.5		
9/23/2020				44.4	
9/24/2020					73.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-11	DGWC-14	DGWC-10	DGWC-19	DGWC-48	DGWC-12
8/30/2016	9.7	6							
8/31/2016			8.6	11	3.1	11			
9/1/2016							41	18	13
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	6.2	8	11	3.1	10			
12/7/2016							41		20 (o)
12/8/2016								17	
3/28/2017		6.6	9.5						
3/29/2017	9.9			12	3.8	11	42		13
3/30/2017								16	
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	9.7	6.9	9						
7/12/2017				11	2.9	11	41		12
7/13/2017								15	
8/8/2017									
10/24/2017	9.9	6.7		12		11			
10/25/2017			9.4		3.5		41		13
10/26/2017								14	
11/15/2017						12			
2/27/2018	9.5	8.2	9.7	12.7	3.4	10.8			11.7
2/28/2018							36.4		
3/1/2018									
3/2/2018								12.8	
3/8/2018									
7/11/2018		10.5			3.2		38.2		11.3
7/12/2018								11.7	
11/6/2018	10.5	8.7	10.2	15.2		12.3			
11/7/2018					3.1		38.8	11.4	11.8
11/8/2018									
3/12/2019	10.7	8.5	10.6	14.5		12.1			12.1
3/13/2019					3.4		40.1		
3/14/2019								10.2	
10/15/2019				15.6		9.4			11.6
10/16/2019	10.4		11.6		3.5		33.2		
10/17/2019		10							
10/18/2019								9.6	
3/2/2020			10.5	15					8.9
3/3/2020	9.6	6.6			4.1	8.4	30.9		
3/4/2020								9.1	
3/9/2020									
9/22/2020		8	10.5	16	3.2		27.6		10.8
9/23/2020	9.1							8	
9/24/2020						5.9			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	12								
9/2/2016		15	30	25					
9/6/2016					19	16			
9/7/2016							17	33	
12/6/2016									
12/7/2016		16			20	14			
12/8/2016	12		26	24			19	32	
3/28/2017									3.6
3/29/2017		17	30						
3/30/2017				24	21	16	20		
3/31/2017	9.1							33	
5/11/2017									
5/12/2017									3.8
5/15/2017									
6/15/2017									
6/16/2017									3.4
7/11/2017									3.1
7/12/2017		18		23	21	14	18		
7/13/2017	5.7		29					33	
8/8/2017									
10/24/2017									3.2
10/25/2017		20	29	23	21		19	32	
10/26/2017	6.6								
11/15/2017						16			3.1
2/27/2018									3.2
2/28/2018		18.6	23.4	19.9	20.1	2.7	17	29	
3/1/2018	10.7								
3/2/2018									
3/8/2018									
7/11/2018		20.4		20.9	21.4		19.5	29.3	
7/12/2018	9.5		26.1						
11/6/2018									2.6
11/7/2018	8.6	21.5	25.8	20.5	22.4	16.7	21.4	28.6	
11/8/2018									
3/12/2019									3.3
3/13/2019		24.8		21.3		12.4	19.9		
3/14/2019	6.6		26.3		24			24.8	
10/15/2019									3.3
10/16/2019						17.4			
10/17/2019	7	24.9		20.1	22			25.8	
10/18/2019			23.4				22		
3/2/2020									3
3/3/2020			21.8	19.7	22.7	9.4			
3/4/2020	4.4	27.8					19.6	23.6	
3/9/2020									
9/22/2020		25.8						22.1	5.2
9/23/2020	3.3				22.4	12.6			
9/24/2020			21.5	20			22.7		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	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	3.8	29	3.7		
3/29/2017					
3/30/2017				17	4.8
3/31/2017					
5/11/2017			2.3		4.4
5/12/2017		29		17	
5/15/2017	2.2				
6/15/2017	2	28	2.6	16	4.8
6/16/2017					
7/11/2017	2.1	28			4.6
7/12/2017			2.3	16	
7/13/2017					
8/8/2017	2.2				
10/24/2017	2.4	28	2.7		4.4
10/25/2017					
10/26/2017				17	
11/15/2017		27	2.2		
2/27/2018	2.5	24.6			4.1
2/28/2018					
3/1/2018				14.8	
3/2/2018					
3/8/2018			2.4		
7/11/2018					3.3
7/12/2018			2.2	15.2	
11/6/2018	2.3	24.8			3.7
11/7/2018			2.3		
11/8/2018				14.6	
3/12/2019	2.5	24.2			3.1
3/13/2019			3.6		
3/14/2019				15.2	
10/15/2019	2.2	20.9			
10/16/2019			2		
10/17/2019					2.8
10/18/2019				14.4	
3/2/2020	1.9	18.7			
3/3/2020					2.3
3/4/2020				13.9	
3/9/2020			1.8		
9/22/2020	1.9	17	1.6		
9/23/2020					2.1
9/24/2020				13.7	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-11	DGWC-10	DGWC-5	DGWC-14	DGWC-47	DGWC-12	DGWC-48
8/30/2016	0.39	0.78							
8/31/2016			0.06 (J)	1	1	0.06 (J)			
9/1/2016							1.8	0.02 (J)	1.5
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	0.47	1.1	0.06 (J)	1.3	0.76	0.1 (J)			
12/7/2016								0.16 (J)	
12/8/2016							1.1		1.6
3/28/2017		1.1			1.2				
3/29/2017	0.51		0.04 (J)	1.5		0.02 (J)		0.1 (J)	
3/30/2017									0.86
3/31/2017							0.88		
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	0.2 (J)	1.1			0.7				
7/12/2017			0.03 (J)	1.7		<0.1		0.2 (J)	
7/13/2017							0.84		1.1
8/8/2017									
10/24/2017	0.82	1.7	<0.1	2.1					
10/25/2017					1.4	<0.1		0.6	
10/26/2017							1		1.7
11/15/2017				1.4					
2/27/2018	0.59	1.2	<0.1	2.3	1.3	<0.1		0.34	
2/28/2018									
3/1/2018							1.4		
3/2/2018									1.1
3/8/2018									
7/11/2018		1.3				<0.1		<0.1	
7/12/2018							0.96		0.65
11/6/2018	0.35	1.1	<0.1	2	<0.3 (J)				
11/7/2018						<0.1	0.74	<0.3 (J)	0.63
11/8/2018									
3/12/2019	0.35	0.97	0.052 (J)	1.7	0.31			0.065 (J)	
3/13/2019						0.042 (J)			
3/14/2019							1.6		1.4
8/27/2019		0.68	<0.1	1.4	0.32	<0.1		<0.1	
8/28/2019	0.098 (J)								
8/29/2019							0.52		0.78
10/15/2019			<0.1	1.4				<0.1	
10/16/2019	0.14 (J)				0.32	0.052 (J)			
10/17/2019		1.2					0.46		
10/18/2019									0.46
3/2/2020			0.064 (J)		0.33			0.071 (J)	
3/3/2020	<0.1	1.4		1.5		<0.1			
3/4/2020							0.74		0.7
3/9/2020									
8/11/2020		1.3	<0.1	1.4		<0.1		<0.1	
8/12/2020	0.056 (J)				0.13		0.22		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-11	DGWC-10	DGWC-5	DGWC-14	DGWC-47	DGWC-12	DGWC-48
8/13/2020									0.47
8/14/2020									
9/22/2020		0.99	<0.1		0.12	<0.1		<0.1	
9/23/2020	<0.1						0.11		0.32
9/24/2020				0.97					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-21	DGWC-20	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	0.75								
9/2/2016		0.07 (J)	0.66	0.3					
9/6/2016					0.17 (J)	0.11 (J)			
9/7/2016							0.32	0.02 (J)	
12/6/2016									
12/7/2016	0.37		0.66		0.3	0.11 (J)			
12/8/2016		0.14 (J)		0.12 (J)			0.31	0.06 (J)	
3/28/2017									0.17 (J)
3/29/2017	0.35		0.34	0.11 (J)					
3/30/2017		<0.1			0.12 (J)	<0.1	0.1 (J)		
3/31/2017								<0.1	
5/11/2017									
5/12/2017									<0.1
5/15/2017									
6/15/2017									0.02 (J)
6/16/2017									
7/11/2017									0.02 (J)
7/12/2017	0.34	0.04 (J)	0.41		0.13 (J)	0.07 (J)	0.27 (J)		
7/13/2017				0.09 (J)				<0.1	
8/8/2017									
10/24/2017									<0.1
10/25/2017	0.9	0.34	0.68	0.25 (J)		0.26 (J)	0.49	<0.1	
10/26/2017									
11/15/2017					0.44				0.79
2/27/2018									<0.1
2/28/2018	1.2	<0.1	0.76	<0.1	0.18	<0.1	0.54	<0.1	
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	0.37	<0.1	1.3			<0.1	0.15 (J)	<0.1	
7/12/2018				0.13 (J)					
11/6/2018									<0.1
11/7/2018	<0.3 (J)	<0.1	<0.3 (J)	<0.1	<0.3 (J)	<0.1	<0.3 (J)	<0.1	
11/8/2018									
3/12/2019									0.082 (J)
3/13/2019	0.22 (J)	0.043 (J)	0.45		0.13 (J)		0.084 (J)		
3/14/2019				0.042 (J)		0.057 (J)		<0.1	
8/27/2019							0.24 (J)		<0.1
8/28/2019	0.2				0.091 (J)	<0.1		<0.1	
8/29/2019		0.079 (J)	0.78	0.054 (J)					
10/15/2019									<0.1
10/16/2019	0.23 (J)				0.14 (J)				
10/17/2019		<0.1	0.26 (J)			0.079 (J)		<0.1	
10/18/2019				<0.1			0.086 (J)		
3/2/2020									<0.1
3/3/2020	0.056 (J)	<0.1		<0.1	0.078 (J)	<0.1			
3/4/2020			1.5				<0.1	<0.1	
3/9/2020									
8/11/2020	0.2								
8/12/2020					0.051 (J)				<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-21	DGWC-20	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/13/2020			0.9			<0.1		<0.1	
8/14/2020		<0.1		<0.1			0.069 (J)		
9/22/2020	0.084 (J)		0.15					<0.1	<0.1
9/23/2020					0.058 (J)	<0.1			
9/24/2020		<0.1		<0.1			0.056 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 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 (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
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)		

Prediction Limit

Constituent: pH (SU) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-10	DGWC-5	DGWC-11	DGWC-48	DGWC-19	DGWC-47
8/11/2020		4	5.73	4.92		5.68		4.9	
8/12/2020	5.36				4.84				4.43
8/13/2020							4.26		
8/14/2020									
9/22/2020		4	5.7		4.83	5.54		4.91	
9/23/2020	5.21						4.64		4.4
9/24/2020				4.89					

Prediction Limit

Constituent: pH (SU) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-12	DGWC-4
8/11/2020								5.69	
8/12/2020				5.68					5.93
8/13/2020			4.36		6.58	5.34			
8/14/2020	5.76	5.66					5.01		
9/22/2020			4.66			5.76		6	5.88
9/23/2020				5.72	5.85				
9/24/2020	5.69	5.64					5.1		

Prediction Limit

Constituent: pH (SU) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (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	6.29	5.94			
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	5.51	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 (D)				

Prediction Limit

Constituent: pH (SU) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (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	6.43	6.06			6.01
9/23/2020			5.99		
9/24/2020				6.19	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-5	DGWC-11	DGWC-10	DGWC-14	DGWC-48	DGWC-19	DGWC-12
8/30/2016	300	450							
8/31/2016			400	200	400	44			
9/1/2016							540	240	390
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	320	480	460	190	190	45			
12/7/2016								250	350
12/8/2016							540		
3/28/2017	300		380						
3/29/2017		660		200	360	81 (o)		250	150
3/30/2017							550		
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	320	440	440						
7/12/2017				210	390	44		250	350
7/13/2017							500		
8/8/2017									
10/24/2017	430	430		210	410				
10/25/2017			510			42		270	400
10/26/2017							510		
11/15/2017					390				
2/27/2018	327	340	453	220	335	41			356
2/28/2018								244	
3/1/2018									
3/2/2018							456		
3/8/2018									
7/11/2018	344					40.6		249	344
7/12/2018							409		
11/6/2018	438	307	556	302	356				
11/7/2018						41.3	432	266	298
11/8/2018									
3/12/2019	362	295	484	275	297				284
3/13/2019						41.2		299	
3/14/2019							450		
10/15/2019				273	263				270
10/16/2019		235	493			42.1		323	
10/17/2019	331								
10/18/2019							336		
3/2/2020			455	264					181
3/3/2020	247	195			213	45.5		292	
3/4/2020							368		
3/9/2020									
9/22/2020	282		423	267		40.2		310	183
9/23/2020		178					313		
9/24/2020					204				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	470								
9/2/2016		300	140	580					
9/6/2016					170	180			
9/7/2016							370	230	
12/6/2016									
12/7/2016				650	160	180			
12/8/2016	400	280	260				350	240	
3/28/2017									680
3/29/2017			290	640					
3/30/2017		270			180	210		260	
3/31/2017	350						380		
5/11/2017									
5/12/2017									680
5/15/2017									
6/15/2017									730
6/16/2017									
7/11/2017									740
7/12/2017		290		630	170	170		230	
7/13/2017	270		300				370		
8/8/2017									
10/24/2017									930
10/25/2017		290	290	610		180	370	240	
10/26/2017	290								
11/15/2017					180				820
2/27/2018									811
2/28/2018		267	278	584	43.5	168	350	203	
3/1/2018	245								
3/2/2018									
3/8/2018									
7/11/2018		277		501		154	366	234	
7/12/2018	240		197						
11/6/2018									902
11/7/2018	143	286	320	554	162	168	439	248	
11/8/2018									
3/12/2019									987
3/13/2019		312		539	179			268	
3/14/2019	238		297			195	404		
10/15/2019									888
10/16/2019					167				
10/17/2019	179	255		426		146	321		
10/18/2019			254					222	
3/2/2020									840
3/3/2020		269	242		157	148			
3/4/2020	176			434			329	222	
3/9/2020									
9/22/2020				408			320		800
9/23/2020	111				134	146			
9/24/2020		269	262					259	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	49	17	2.7		
3/29/2017					
3/30/2017				360	220
3/31/2017					
5/11/2017	21			340	
5/12/2017		17			220
5/15/2017			1		
6/15/2017	16		0.86 (J)	300	200
6/16/2017		11			
7/11/2017		11	1.4	330	
7/12/2017	10				220
7/13/2017					
8/8/2017			1.5		
10/24/2017	15	9.6	1.4	260	
10/25/2017					
10/26/2017					220
11/15/2017	3.8	7.8			
2/27/2018		7.4	0.54 (J)	189	
2/28/2018					
3/1/2018					209
3/2/2018					
3/8/2018	9.7				
7/11/2018				162	
7/12/2018	8				202
11/6/2018		7.3	<1 (J)	190	
11/7/2018	12.8				
11/8/2018					292
3/12/2019		7	0.35 (J)	159	
3/13/2019	23.7				
3/14/2019					266
10/15/2019		7.4	0.16 (J)		
10/16/2019	15.1				
10/17/2019				134	
10/18/2019					203
3/2/2020		8.5	<1		
3/3/2020				118	
3/4/2020					204
3/9/2020	9.5				
9/22/2020	13.5	6.5	<1		
9/23/2020				122	
9/24/2020					215

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-5	DGWC-11	DGWC-10	DGWC-12	DGWC-47	DGWC-19
8/30/2016	693	414							
8/31/2016			106	524	307	525			
9/1/2016							568	704	396
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	727	449	138	690	358	595			
12/7/2016							559		400
12/8/2016								587	
3/28/2017		404		545					
3/29/2017	654		102		300	525	550		390
3/30/2017									
3/31/2017								545	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	679	436		612					
7/12/2017			118		382	598	594		360
7/13/2017								441	
8/8/2017									
10/24/2017	468	599			342	353			
10/25/2017			88	650			571		423
10/26/2017								444	
11/15/2017						582			
2/27/2018	520	482	99	698	393	542	582		
2/28/2018									440
3/1/2018								435	
3/2/2018									
3/8/2018									
7/11/2018		532	119				593		457
7/12/2018								372	
11/6/2018	456	554		809	412	512			
11/7/2018			113				504	348	461
11/8/2018									
3/12/2019	438	493		711	433	436	465		
3/13/2019			280						113
3/14/2019								378	
10/15/2019					461	447	472		
10/16/2019	374		104	702					500
10/17/2019		550						327	
10/18/2019									
3/2/2020				759	458		338		
3/3/2020	369	444	123			382			526
3/4/2020								334	
3/9/2020									
9/22/2020		461	105	716	481		338		513
9/23/2020	333							229	
9/24/2020						283			

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-22	DGWC-21	DGWC-20	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	845								
9/2/2016		502	459	1100					
9/6/2016					304	296			
9/7/2016							611	353	
12/6/2016									
12/7/2016				930	287	270			
12/8/2016	777	464	491				535	408	
3/28/2017									1160
3/29/2017		462		923					
3/30/2017	775		436		312	287		338	
3/31/2017							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			505	956	490 (o)	312		417	
7/13/2017	789	492					641		
8/8/2017									
10/24/2017									229
10/25/2017		477	474	854	290		626	343	
10/26/2017	753								
11/15/2017						325			1330
2/27/2018									1380
2/28/2018		476	480	888	313	84	616	364	
3/1/2018									
3/2/2018	704								
3/8/2018									
7/11/2018			485	826	320		638	393	
7/12/2018	705	486							
11/6/2018									1480
11/7/2018	678	511	516	834	325	314	626	408	
11/8/2018									
3/12/2019									1490
3/13/2019			486	639		656		802	
3/14/2019	625	491			340		630		
10/15/2019									1520
10/16/2019						296			
10/17/2019			498	751	319		612		
10/18/2019	593	480						403	
3/2/2020									1540
3/3/2020		452	490		323	263			
3/4/2020	630			761			721	414	
3/9/2020									
9/22/2020				724			547		1400
9/23/2020	575				317	278			
9/24/2020		455	494					411	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/4/2020 3:37 PM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	202	90	39		
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		59	25	542	
7/12/2017	218				461
7/13/2017					
8/8/2017			53		
10/24/2017	671 (o)	117	49	523	
10/25/2017					
10/26/2017					446
11/15/2017	241	90			
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	142	74	46		
9/23/2020				267	
9/24/2020					456

FIGURE E.

Trend Test Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWC-10	-0.7875	-41	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.05321	44	34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.105	-39	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.04907	40	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.3228	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.7622	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.5082	38	34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-47	-0.02874	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.07167	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.5023	-46	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-9	-0.2724	-55	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-5.213	-40	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.9849	-35	-34	Yes	11	9.091	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	6.164	47	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.938	54	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-2	-19.32	-62	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-7.742	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	1.372	43	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.8116	46	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-2.92	-44	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	3.214	62	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-1.347	-48	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.105	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.9328	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.348	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.859	-54	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-48	-2.563	-66	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.7327	40	34	Yes	11	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-19	0.07026	68	48	Yes	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-9	-0.02468	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	-0.3438	-40	-38	Yes	12	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-2.262	-49	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	17.35	39	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-76.21	-58	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-20	-54.31	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-72.08	-58	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-57.99	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-81.75	-49	-34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-53 (bg)	-26.46	-41	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-11	40.18	45	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-20	-67.11	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-4	117.2	45	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-48	-65.67	-56	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-5	47.26	37	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-8	-92.7	-49	-34	Yes	11	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWA-53 (bg)	-0.0003249	-5	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-70A (bg)	0	1	38	No	12	50	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-71 (bg)	-0.00009656	-1	-34	No	11	18.18	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-10	-0.7875	-41	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.05321	44	34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.012	-38	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.105	-39	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-15	0.03879	20	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.04907	40	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-19	-0.2025	-27	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.3228	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.7622	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-21	0.5429	26	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-22	0.1245	13	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-23	0.1754	25	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.5082	38	34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-42	-0.0129	-15	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-47	-0.02874	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.07167	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-5	-0.2739	-14	-34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.5023	-46	-34	Yes	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-9	-0.2724	-55	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-5.213	-40	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-70A (bg)	-0.1112	-19	-38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.9849	-35	-34	Yes	11	9.091	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-10	-3.185	-13	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	6.164	47	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-12	-9.372	-30	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.938	54	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-2	-19.32	-62	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-20	-3.238	-18	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	3.106	38	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-22	0.5145	12	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-23	1.123	22	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-4	25.63	33	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-42	-0.5495	-12	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-7.742	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	10.45	33	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-9	-0.4432	0	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-53 (bg)	-0.2527	-40	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-70A (bg)	-0.08248	-13	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-71 (bg)	-0.07123	-11	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-10	-0.4055	-14	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	1.372	43	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-12	-0.6308	-34	-34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-13	-0.4371	-7	-34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.8116	46	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-17	1.012	36	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-2.92	-44	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	3.214	62	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-1.347	-48	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.105	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.9328	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.348	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.859	-54	-38	Yes	12	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	DGWC-48	-2.563	-66	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.7327	40	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-8	0	-1	-34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-9	0.9794	31	38	No	12	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-53 (bg)	0	-1	-53	No	15	13.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-70A (bg)	0.01815	38	43	No	13	61.54	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-71 (bg)	0	26	48	No	14	78.57	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-10	0	-7	-48	No	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-9	0.03493	11	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-53 (bg)	0.031	4	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-70A (bg)	0.004574	2	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-71 (bg)	0.06107	33	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-10	0.05117	18	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-17	-0.005267	-14	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-19	0.07026	68	48	Yes	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-20	-0.02415	-38	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-47	-0.2068	-37	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-48	-0.02253	-17	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-5	0.1155	48	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-9	-0.02468	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-53 (bg)	-2.258	-20	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	-0.3438	-40	-38	Yes	12	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-2.262	-49	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-10	-46.42	-33	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-11	21.85	33	34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-12	-43.07	-35	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-13	-3.786	-17	-34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-14	-0.653	-16	-34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-9.472	-37	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-17	1.086	3	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	17.35	39	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-76.21	-58	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-20	-54.31	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-21	-4.361	-20	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-22	0.2633	1	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-23	0	-4	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-4	66.54	29	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-42	-10.69	-20	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-72.08	-58	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-57.99	-51	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-5	12.32	11	34	No	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-81.75	-49	-34	Yes	11	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-9	4.346	6	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-53 (bg)	-26.46	-41	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-70A (bg)	0	0	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-71 (bg)	-5.475	-26	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-11	40.18	45	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-12	-52.08	-33	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-17	16.77	27	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-19	34.48	38	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-20	-67.11	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-21	7.717	26	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-22	-4.029	-12	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-23	1.483	4	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-4	117.2	45	38	Yes	12	0	n/a	n/a	0.01	NP

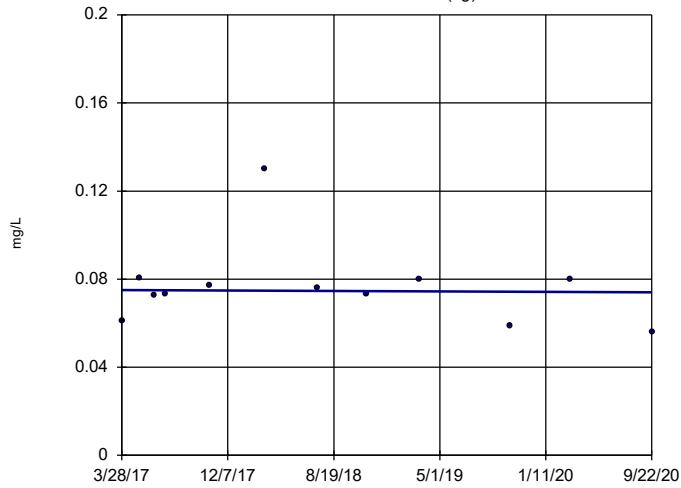
Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	DGWC-42	0.1608	1	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-48	-65.67	-56	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-5	47.26	37	34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-8	-92.7	-49	-34	Yes	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-9	17.89	18	38	No	12	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

DGWA-53 (bg)



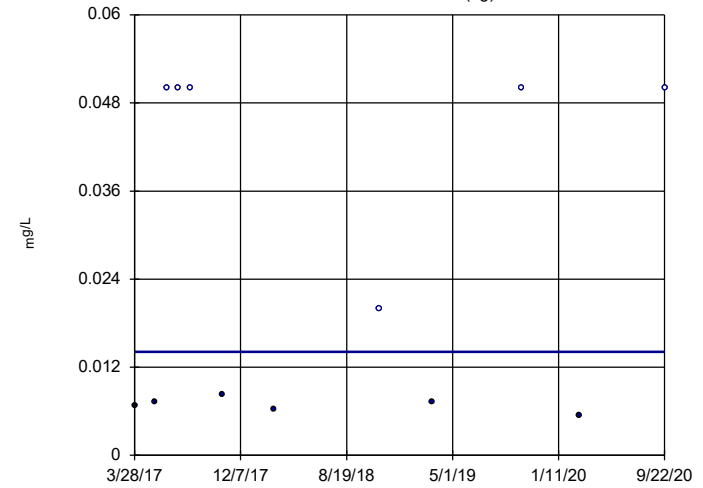
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 Slope = -0.0003249
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



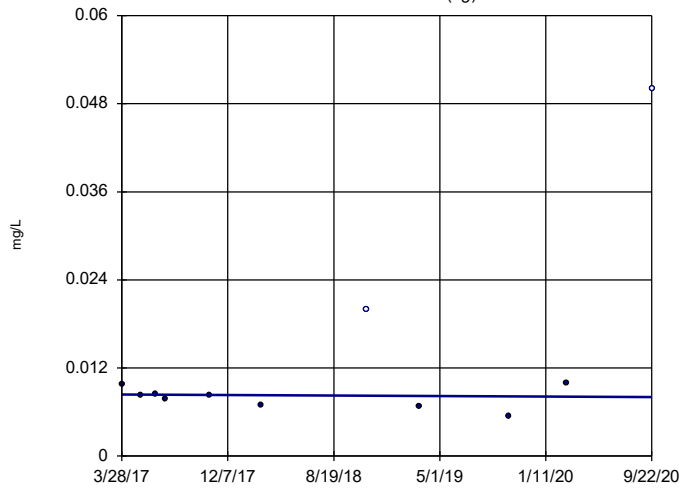
n = 12
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 1
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)

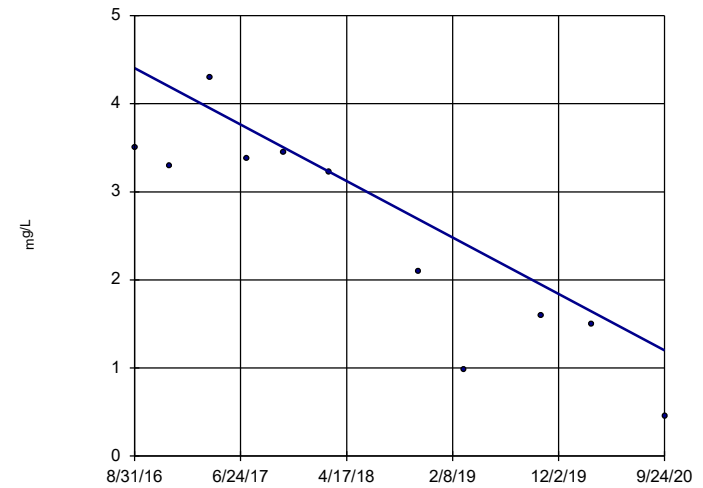


n = 11
 Slope = -0.00009656
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -34
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

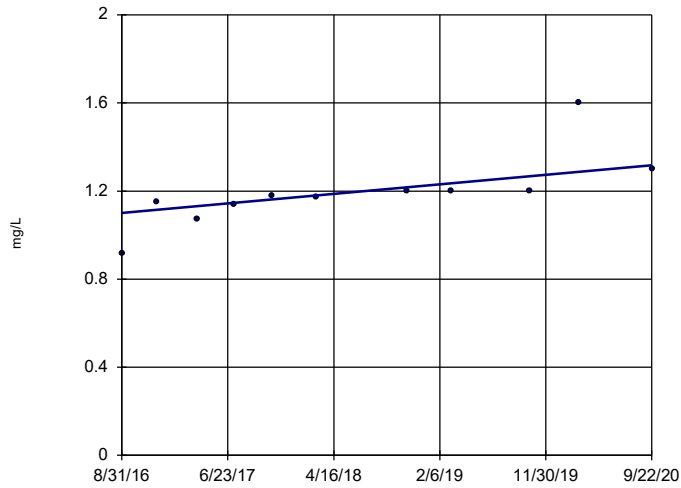
DGWC-10



n = 11
 Slope = -0.7875
 units per year.
 Mann-Kendall
 statistic = -41
 critical = -34
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

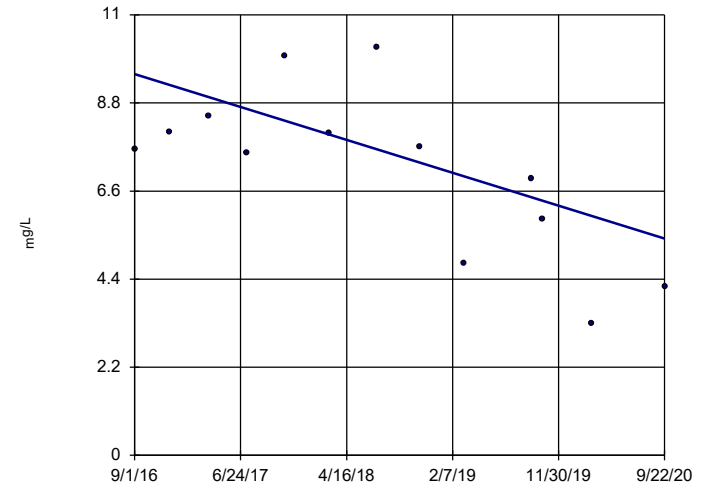
Sen's Slope Estimator
DGWC-11



n = 11
Slope = 0.05321
units per year.
Mann-Kendall
statistic = 44
critical = 34
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

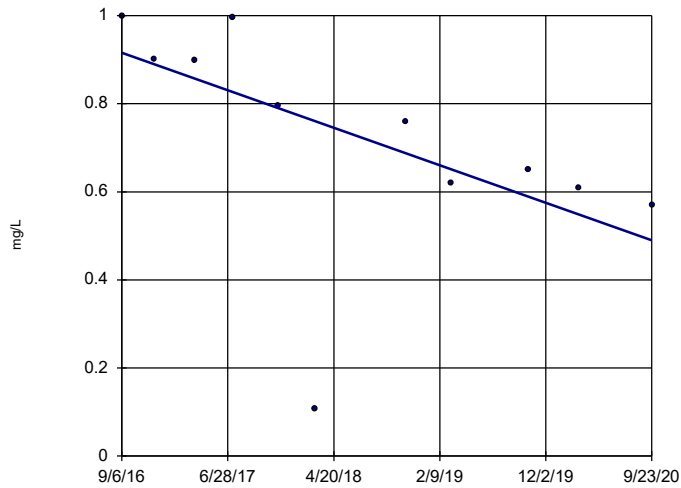
Sen's Slope Estimator
DGWC-12



n = 13
Slope = -1.012
units per year.
Mann-Kendall
statistic = -38
critical = -43
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

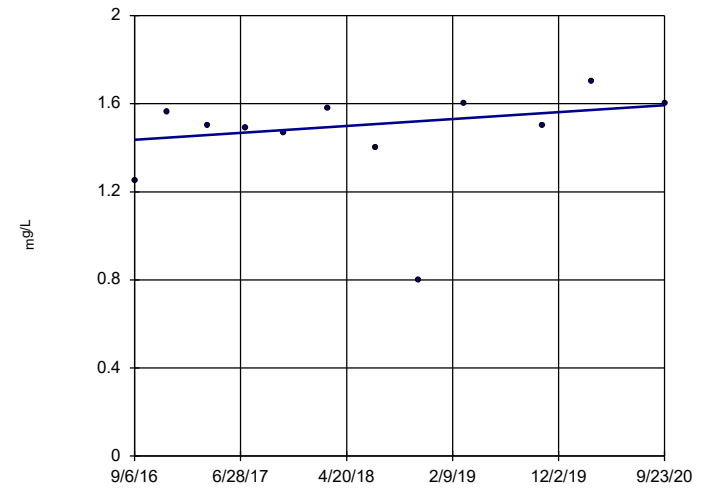
Sen's Slope Estimator
DGWC-13



n = 11
Slope = -0.105
units per year.
Mann-Kendall
statistic = -39
critical = -34
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

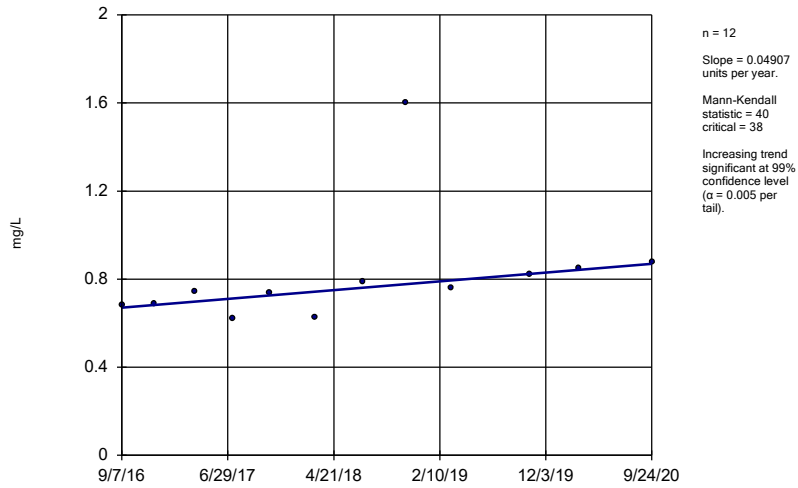
Sen's Slope Estimator
DGWC-15



n = 12
Slope = 0.03879
units per year.
Mann-Kendall
statistic = 20
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

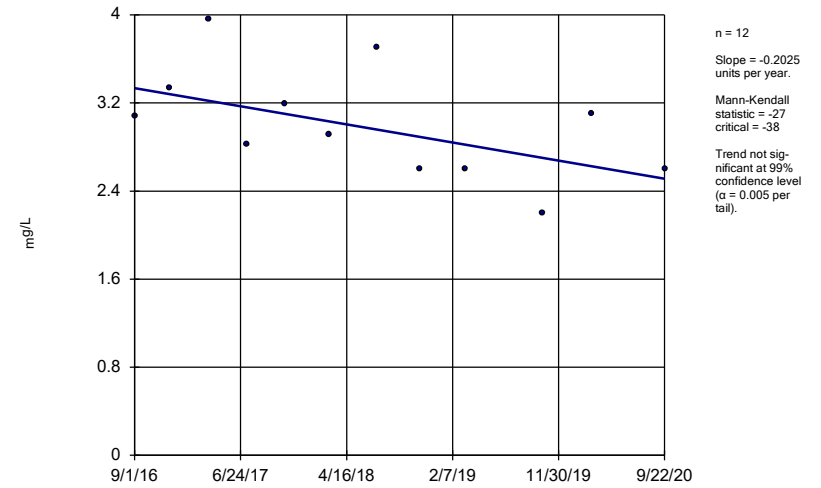
Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-17



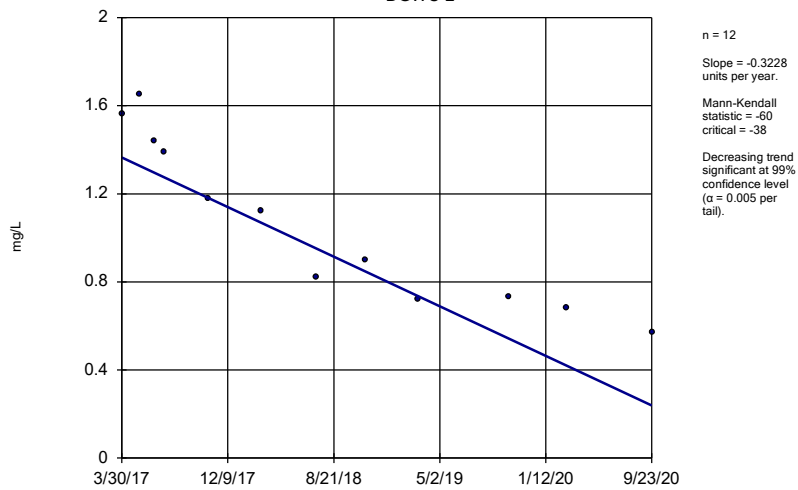
Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-19



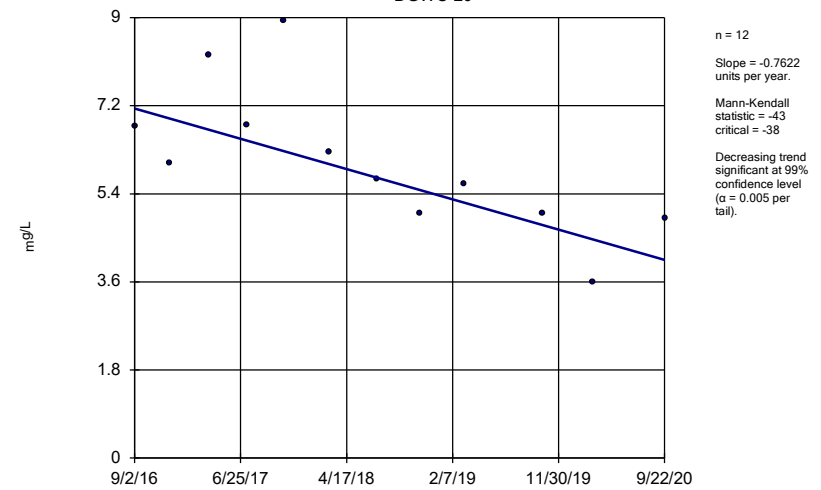
Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-2



Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

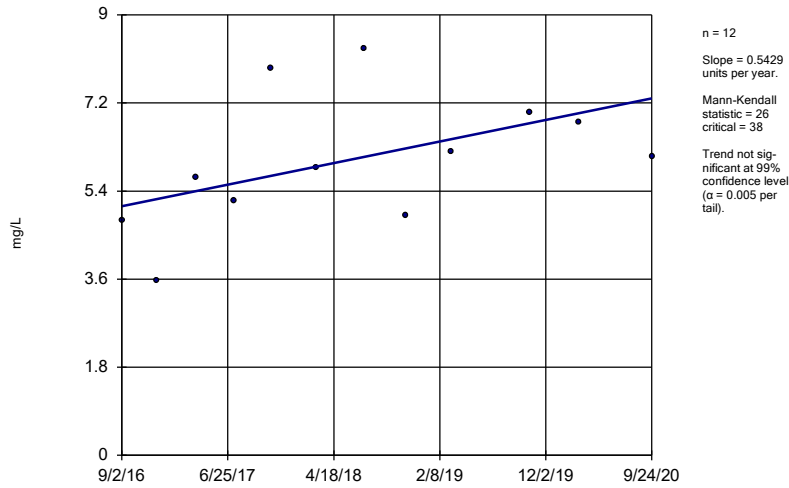
Sen's Slope Estimator DGWC-20



Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

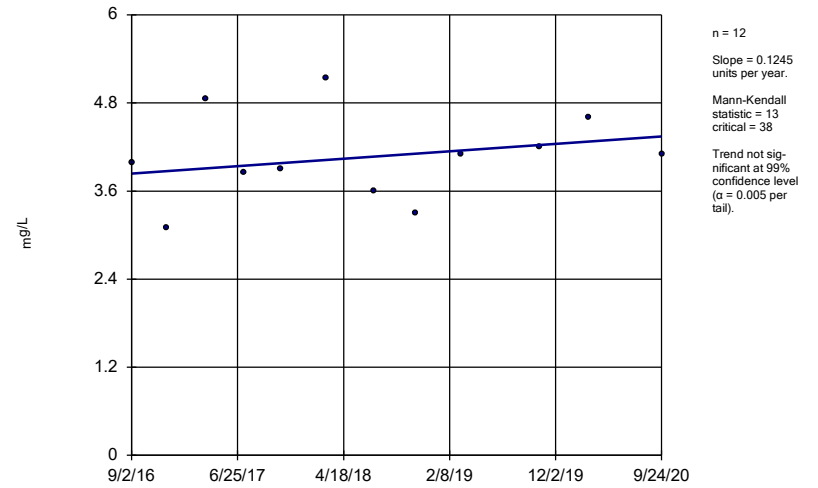
DGWC-21



Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

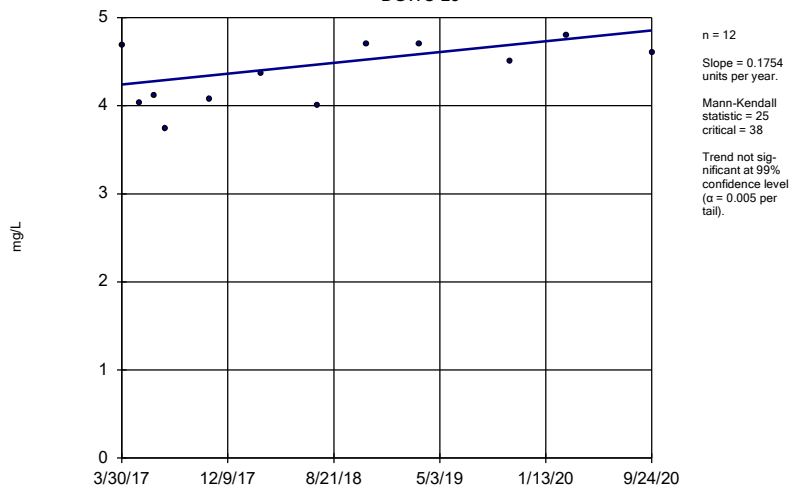
DGWC-22



Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

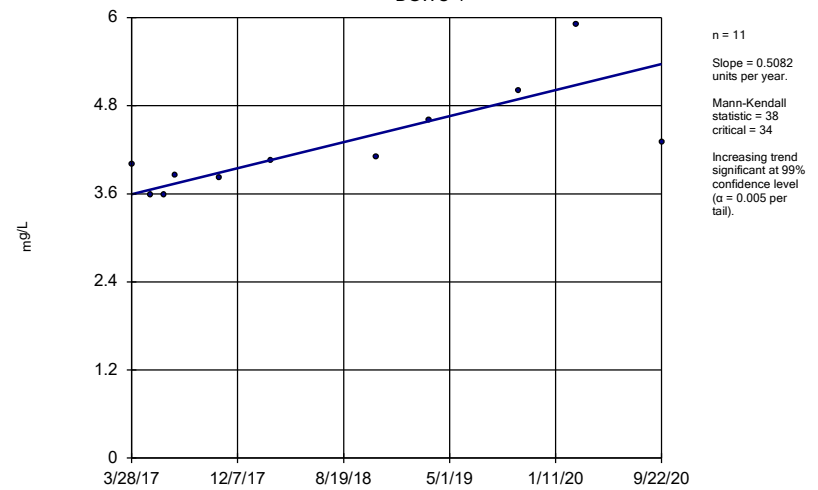
DGWC-23



Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

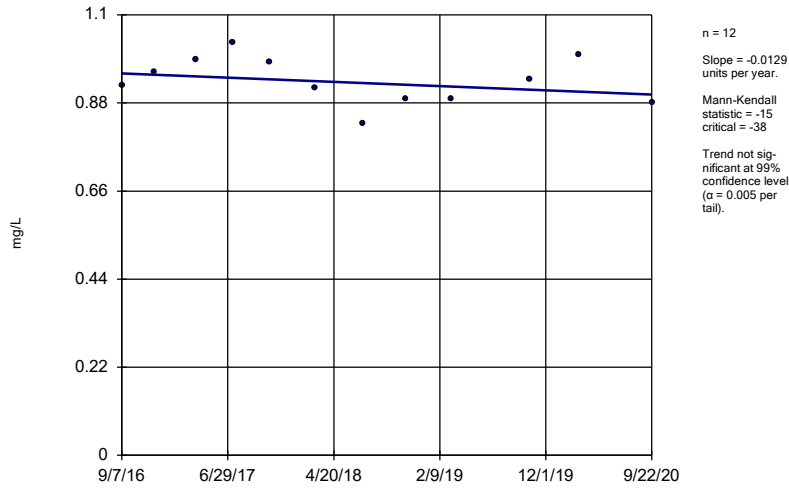
DGWC-4



Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

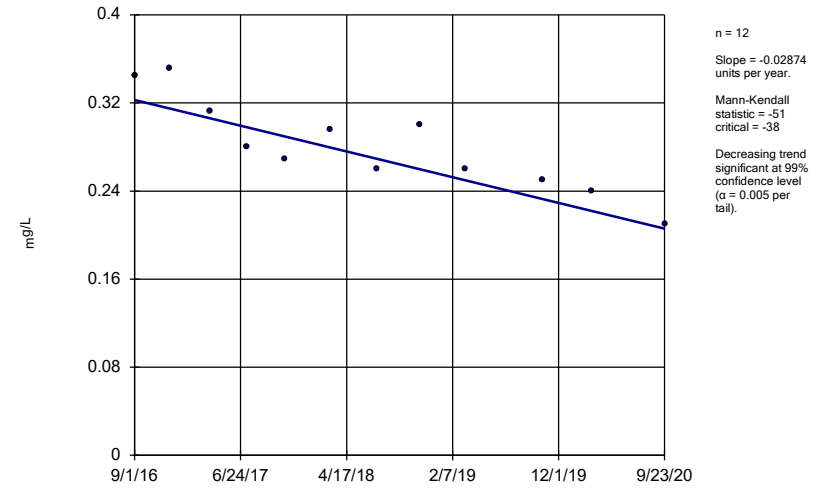
DGWC-42



Constituent: Boron Analysis Run 11/4/2020 3:38 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

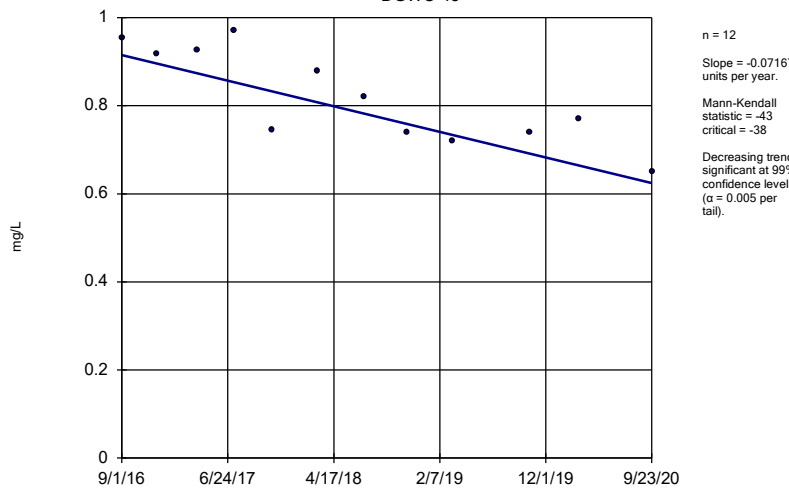
DGWC-47



Constituent: Boron Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

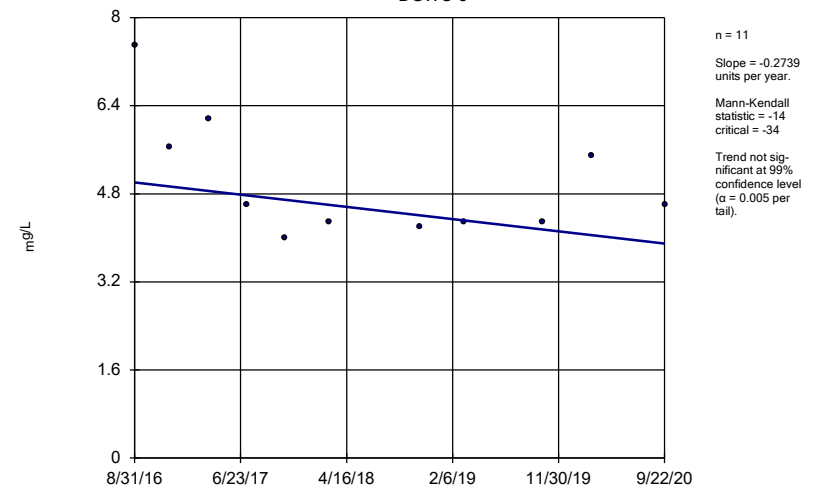
DGWC-48



Constituent: Boron Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

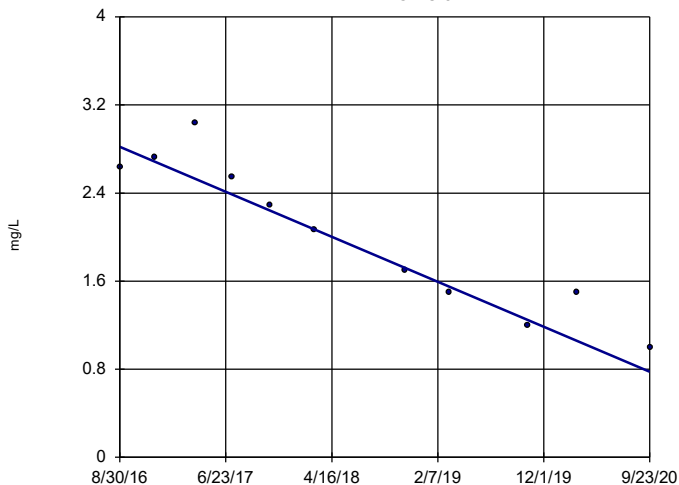
DGWC-5



Constituent: Boron Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-8

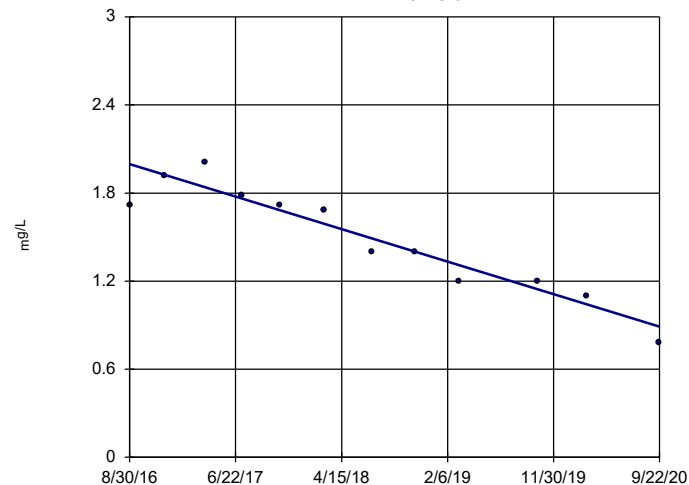


n = 11
 Slope = -0.5023
 units per year.
 Mann-Kendall
 statistic = -46
 critical = -34
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-9

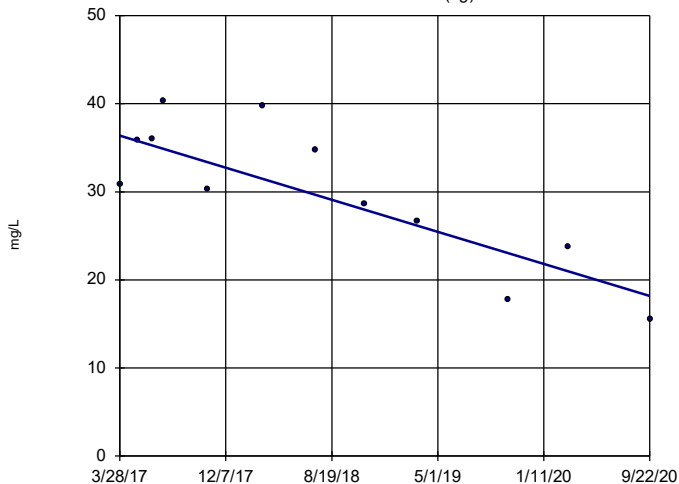


n = 12
 Slope = -0.2724
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -38
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-53 (bg)



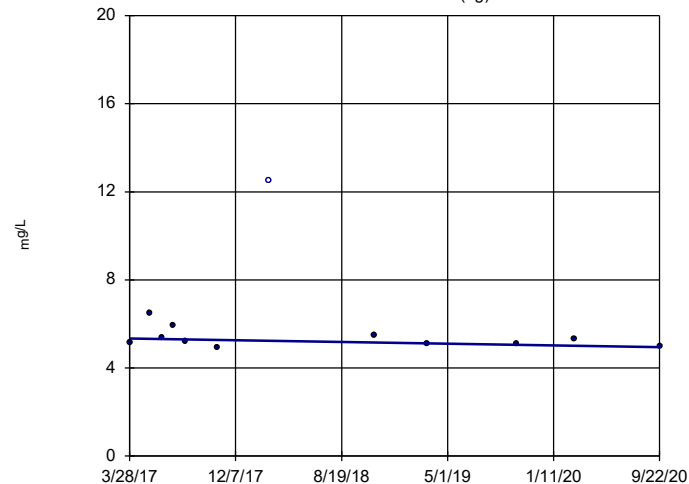
n = 12
 Slope = -5.213
 units per year.
 Mann-Kendall
 statistic = -40
 critical = -38
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

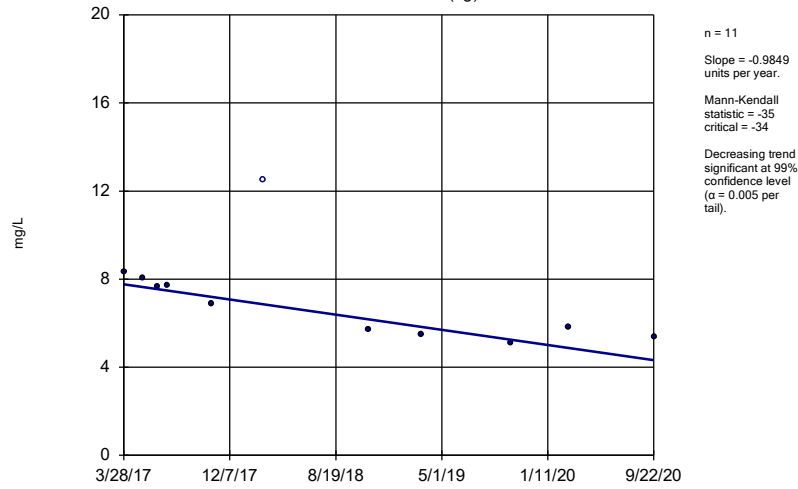
DGWA-70A (bg)



n = 12
 Slope = -0.1112
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

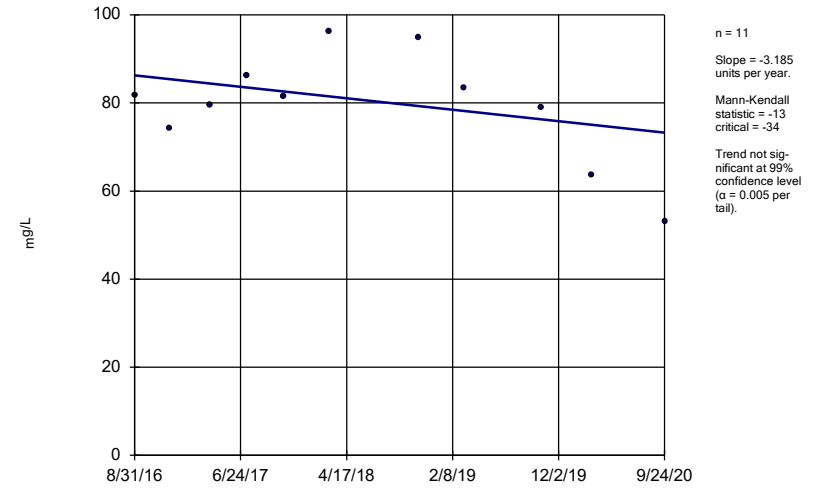
Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWA-71 (bg)



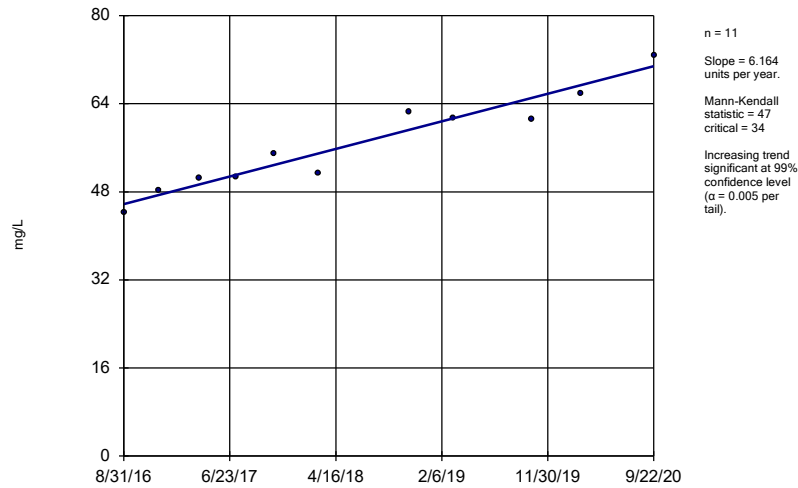
Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-10



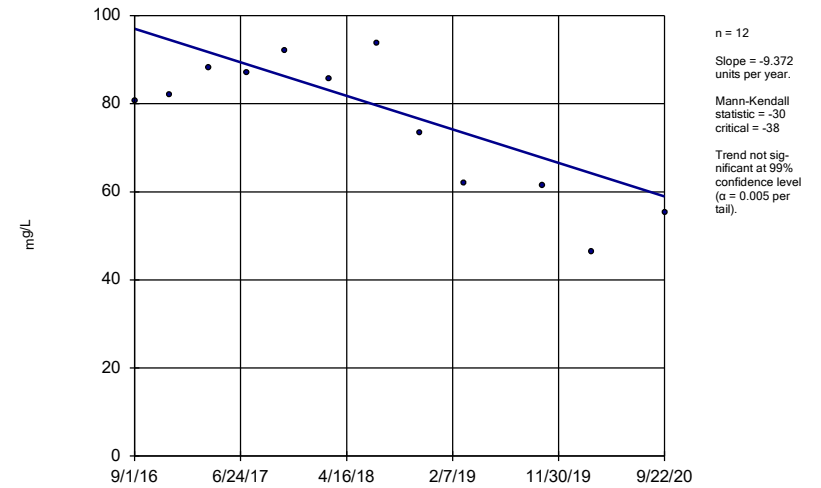
Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-11



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

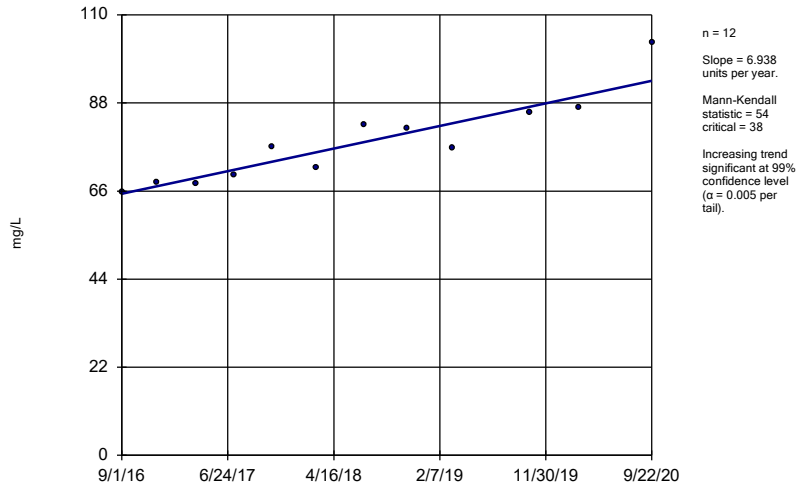
Sen's Slope Estimator
 DGWC-12



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

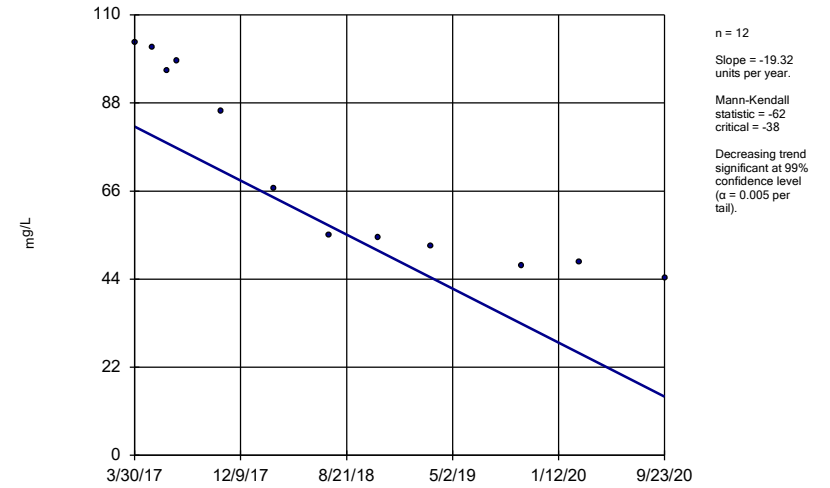
DGWC-19



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

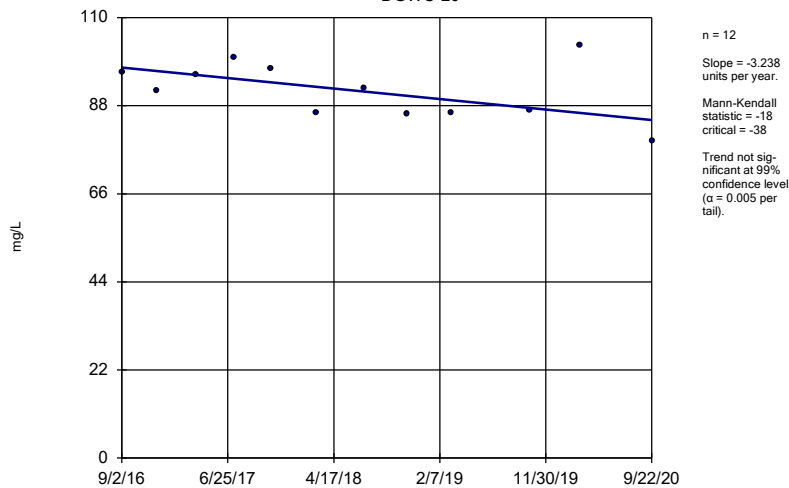
DGWC-2



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

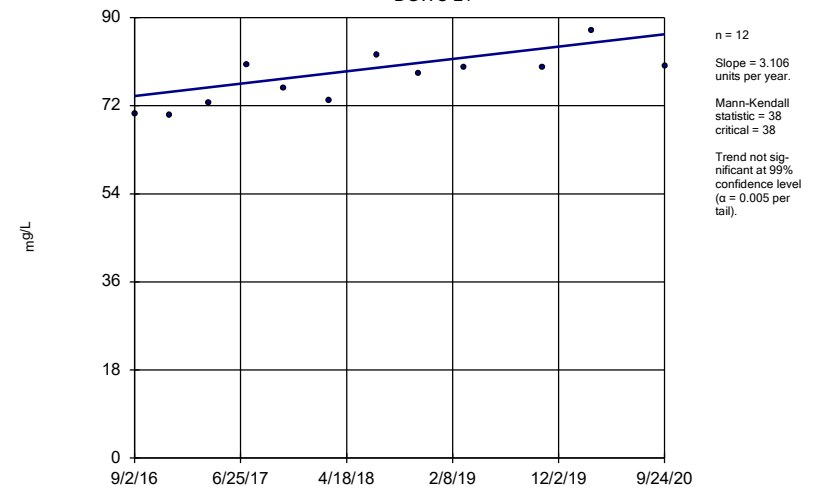
DGWC-20



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

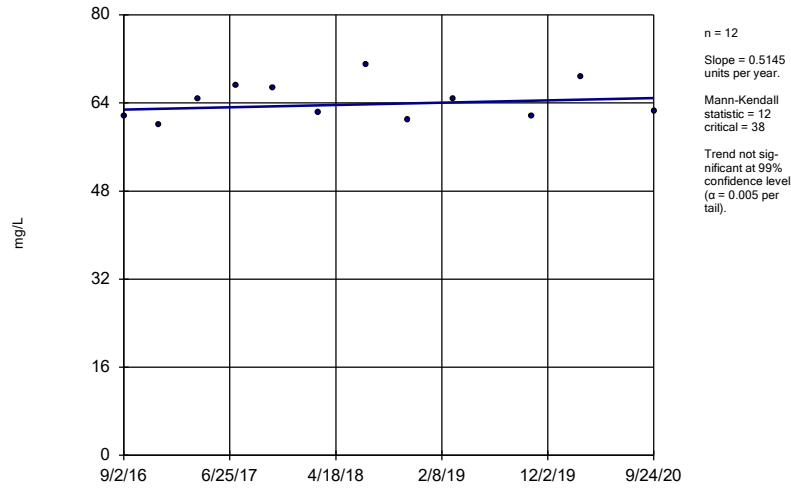
DGWC-21



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

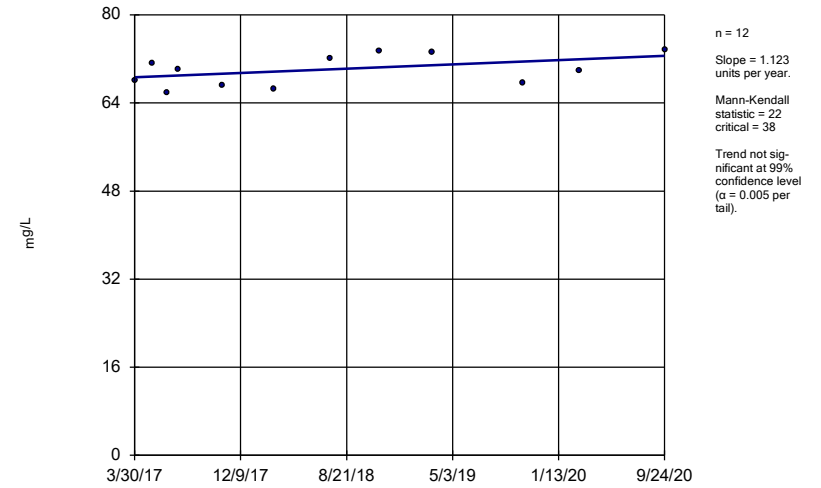
DGWC-22



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

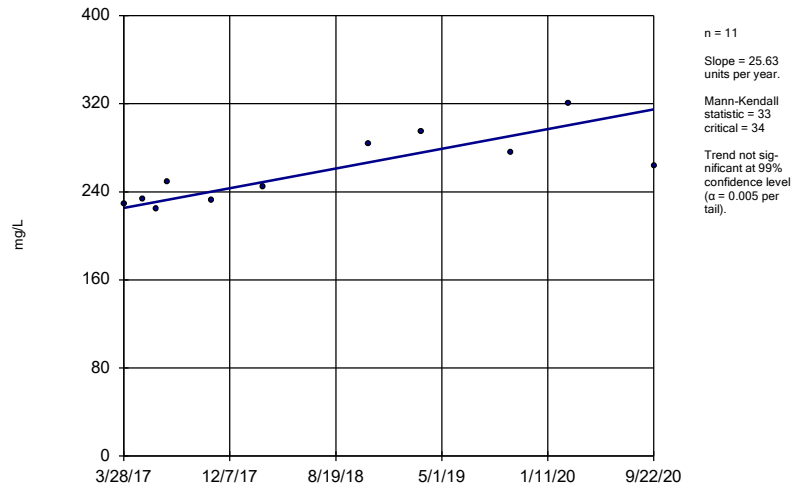
DGWC-23



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

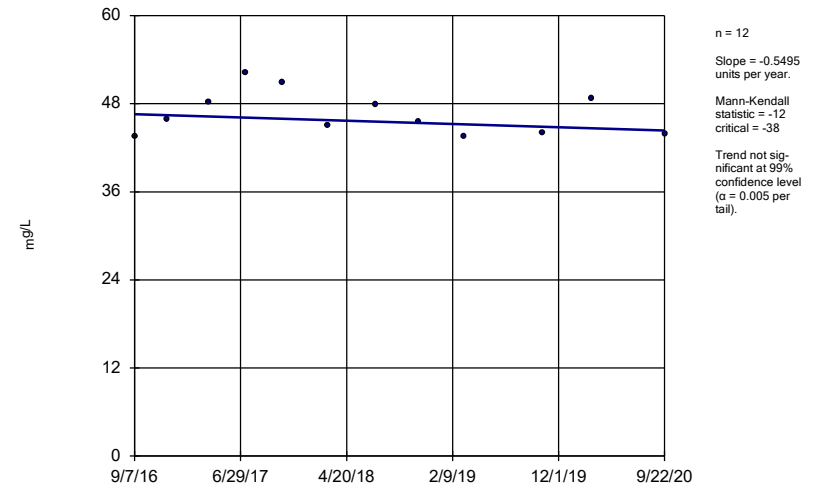
DGWC-4



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

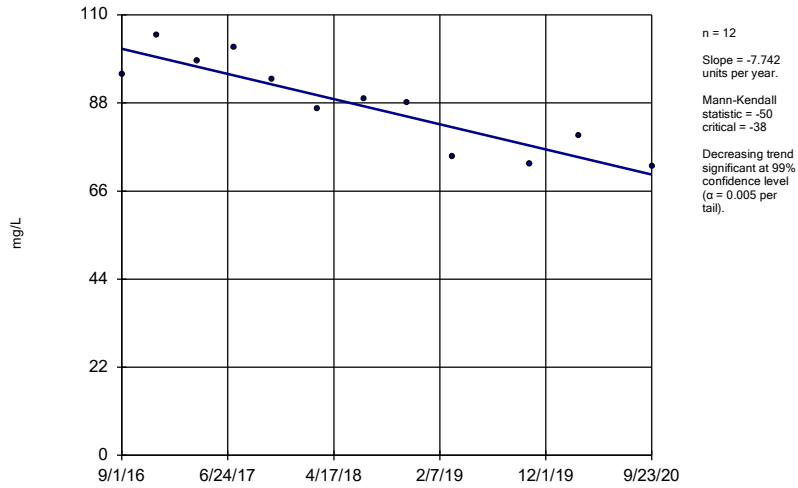
DGWC-42



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

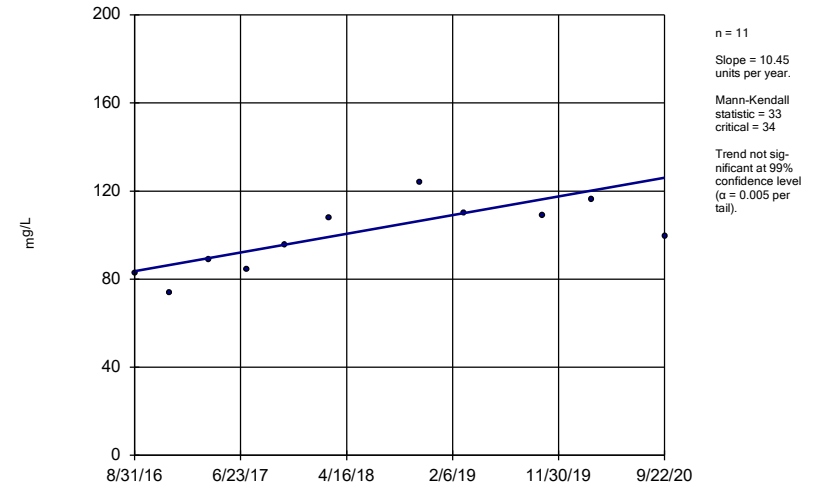
DGWC-48



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

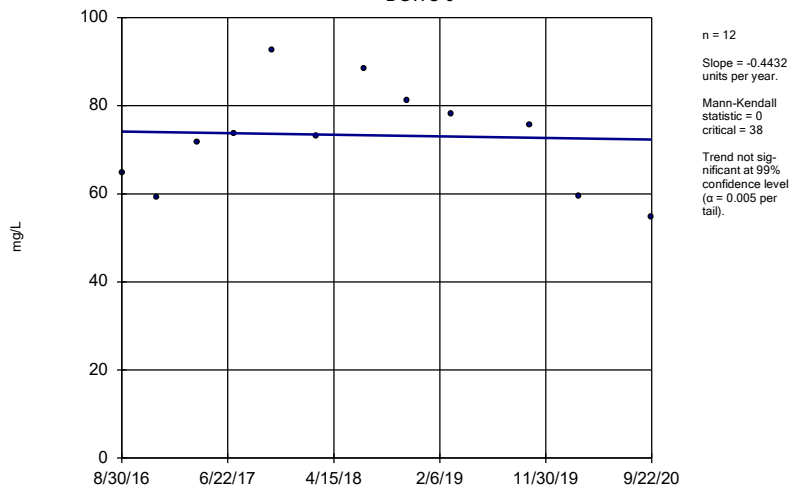
DGWC-5



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

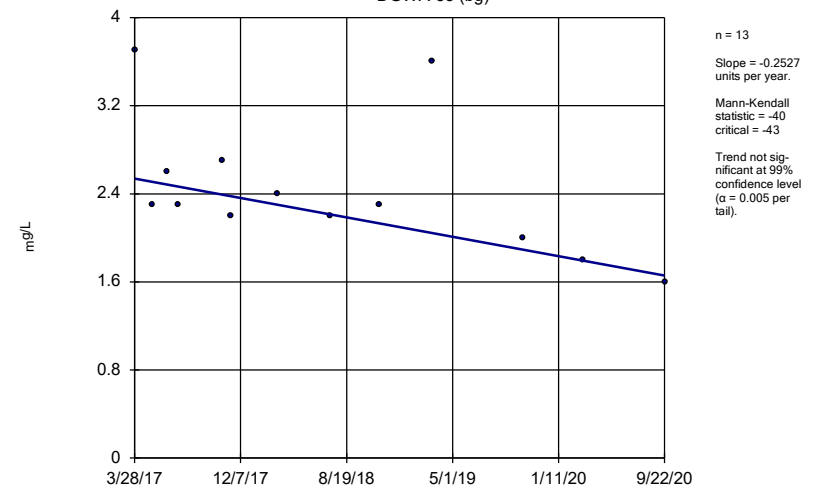
DGWC-9



Constituent: Calcium Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

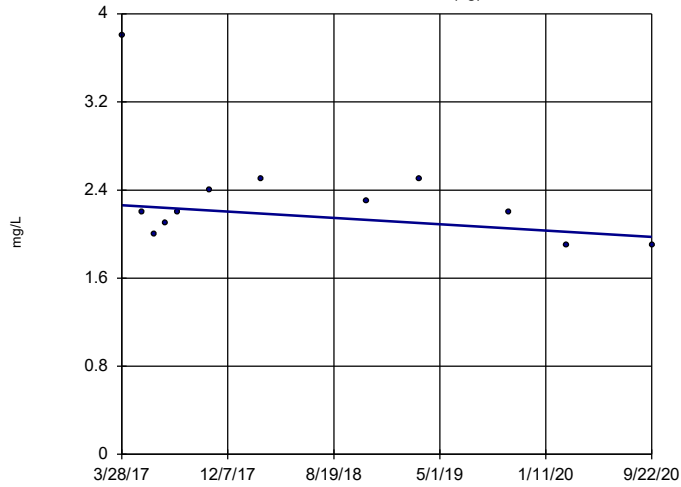
DGWA-53 (bg)



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

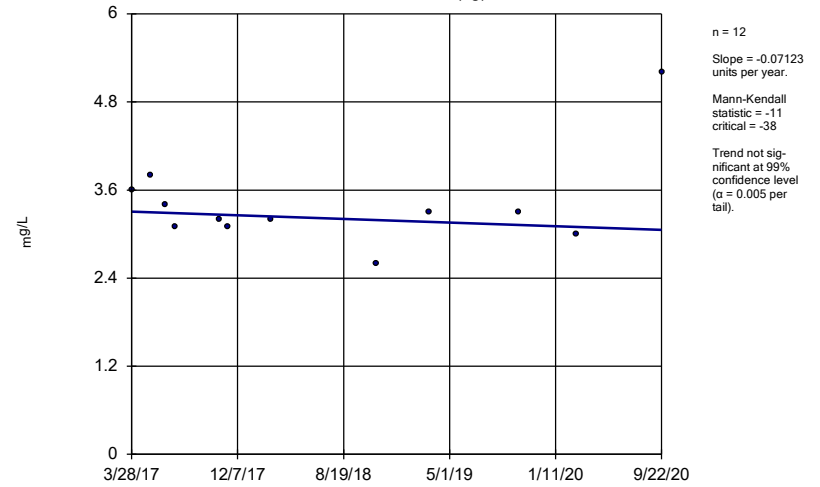
DGWA-70A (bg)



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

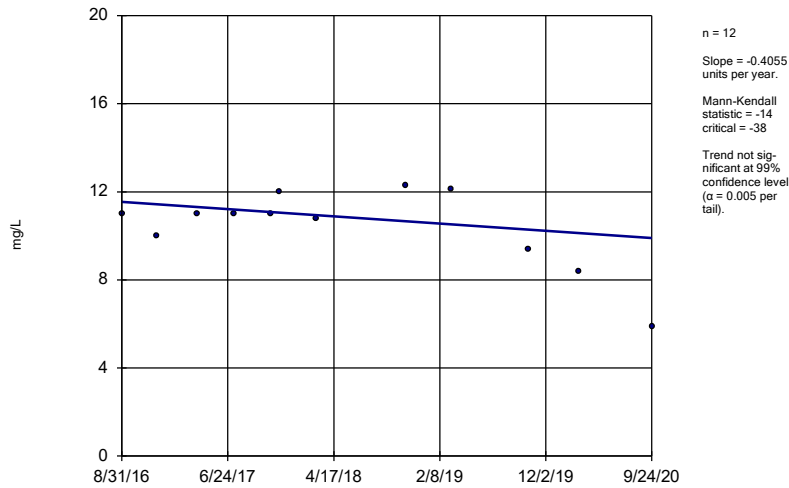
DGWA-71 (bg)



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

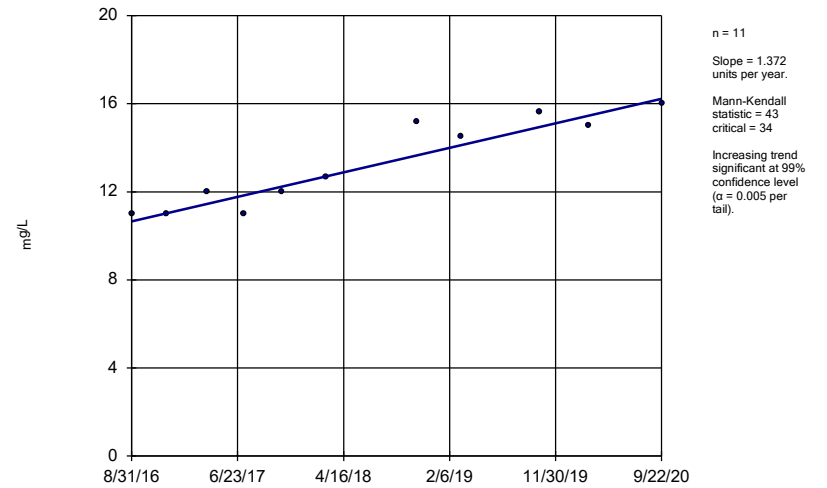
DGWC-10



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

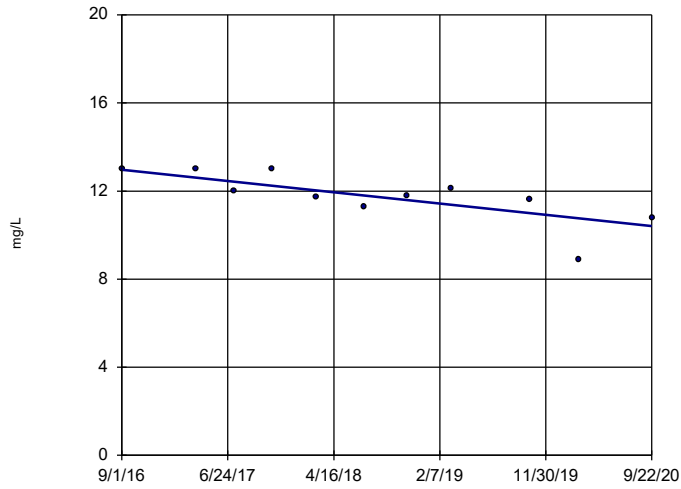
DGWC-11



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-12

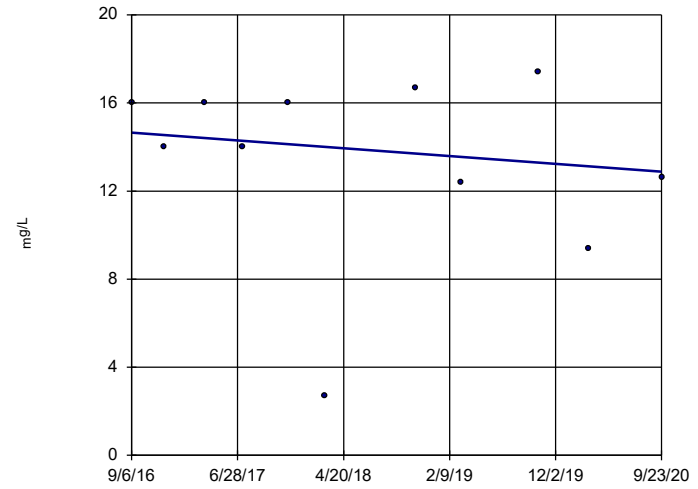


n = 11
 Slope = -0.6308 units per year.
 Mann-Kendall statistic = -34
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-13

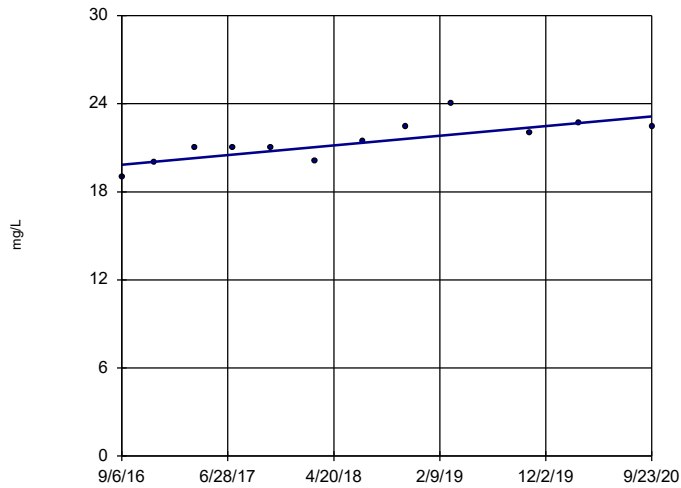


n = 11
 Slope = -0.4371 units per year.
 Mann-Kendall statistic = -7
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-15

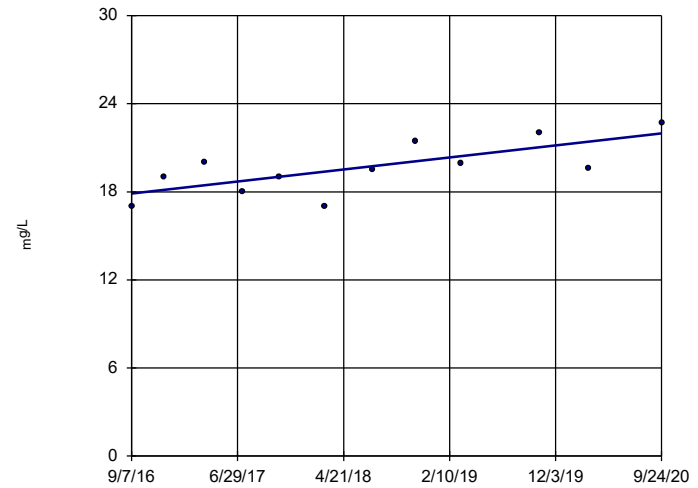


n = 12
 Slope = 0.8116 units per year.
 Mann-Kendall statistic = 46
 critical = 38
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-17

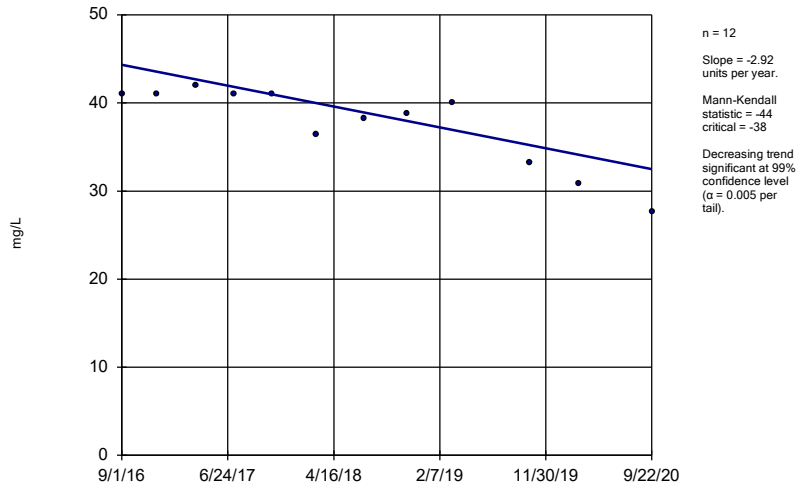


n = 12
 Slope = 1.012 units per year.
 Mann-Kendall statistic = 36
 critical = 38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

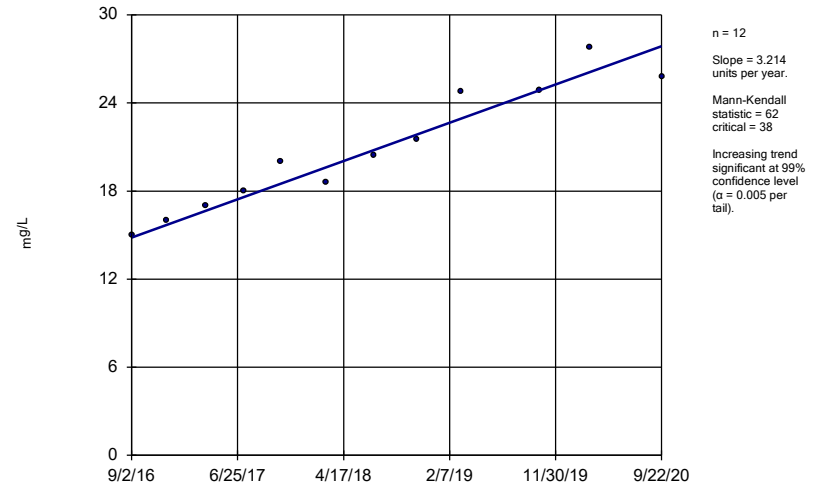
DGWC-19



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

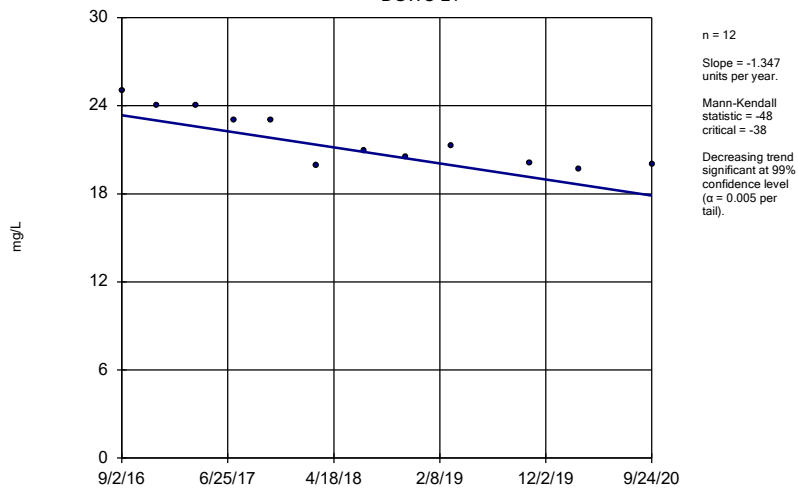
DGWC-20



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

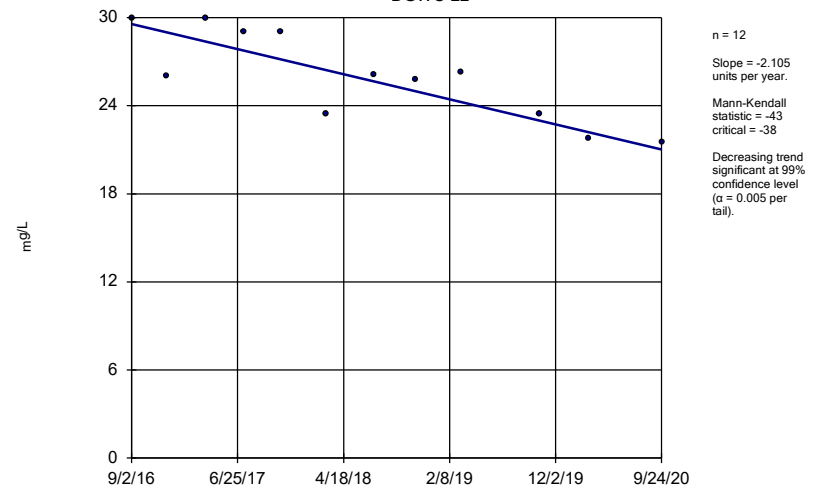
DGWC-21



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

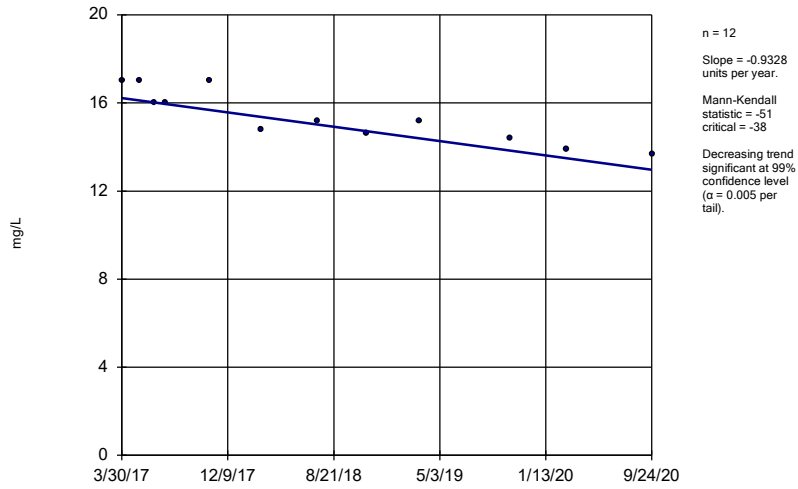
DGWC-22



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

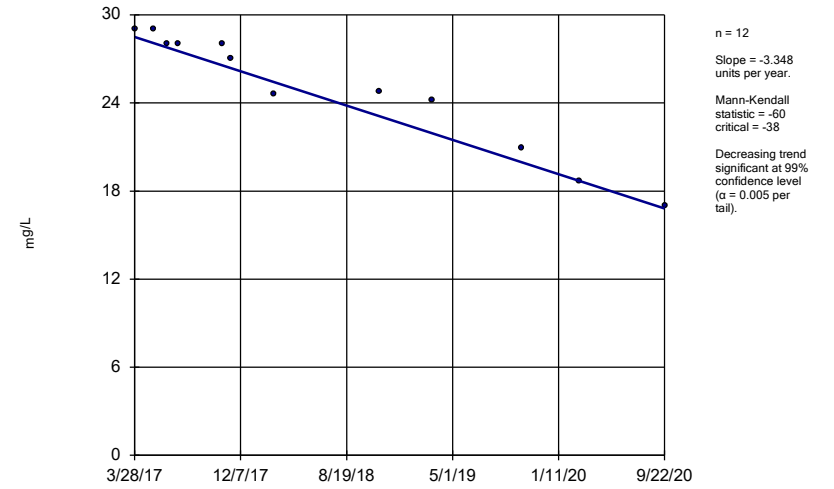
DGWC-23



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

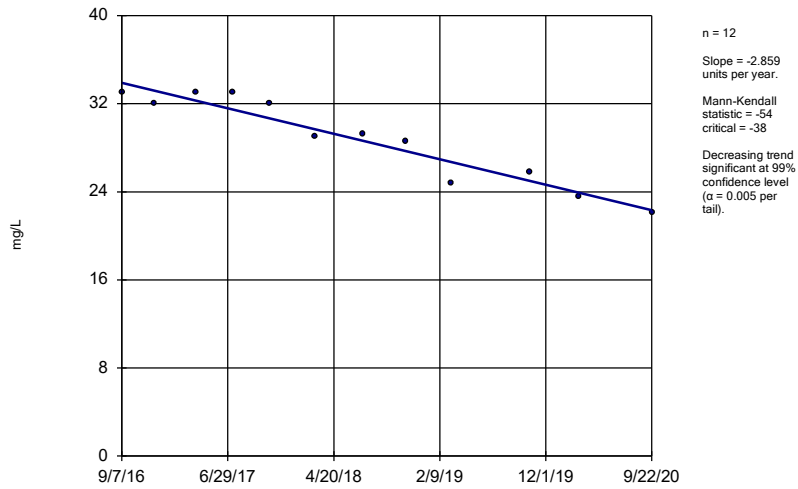
DGWC-4



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

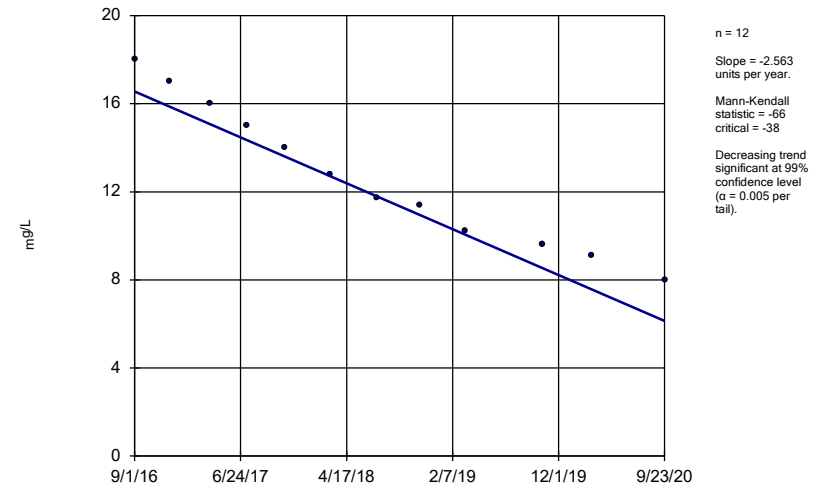
DGWC-42



Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

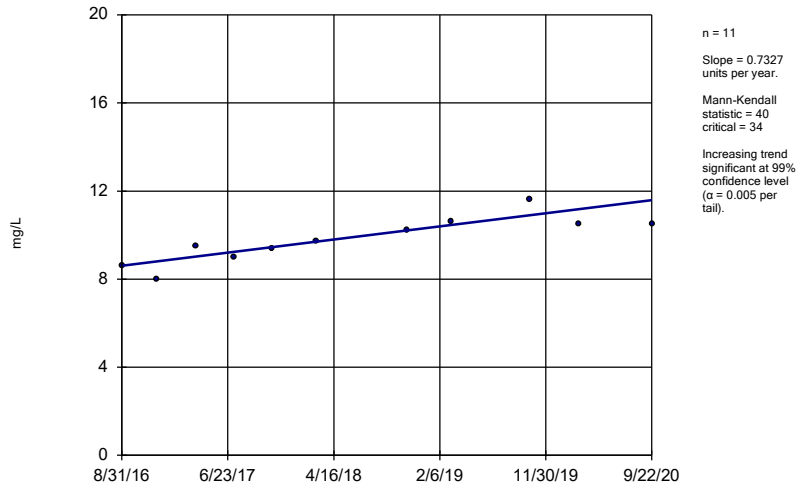
Sen's Slope Estimator

DGWC-48



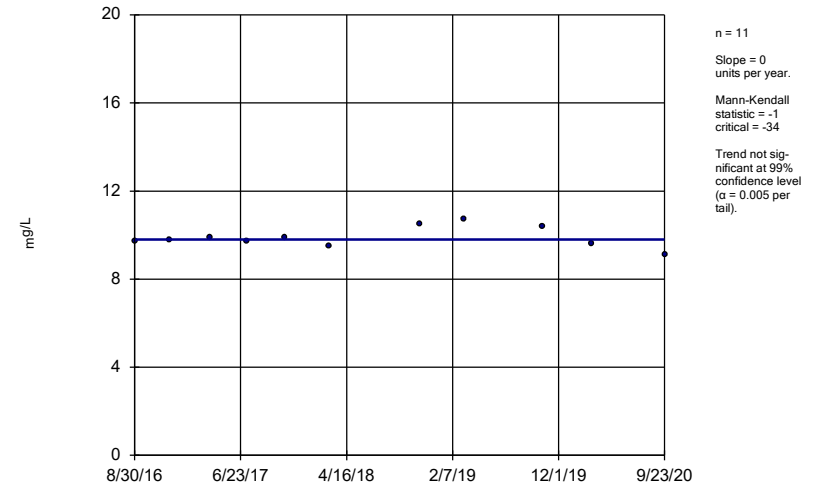
Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-5



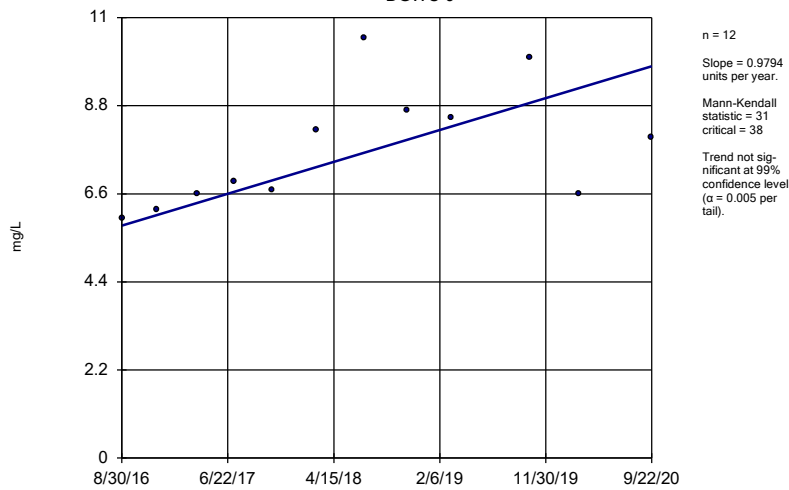
Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-8



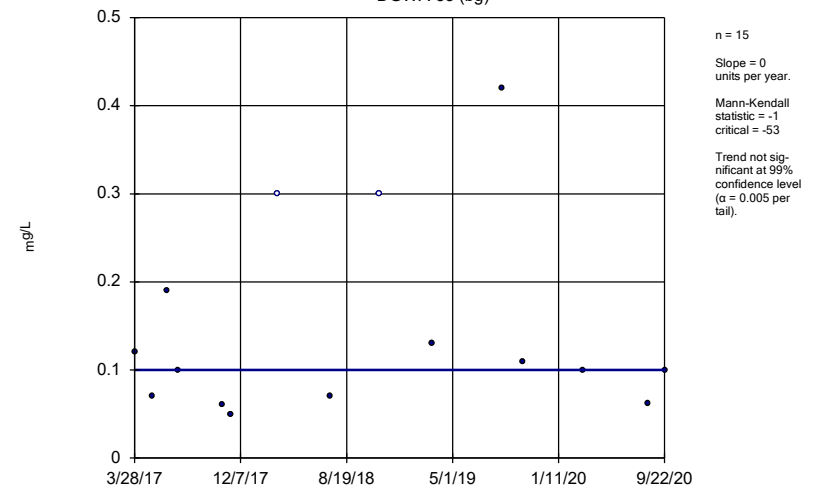
Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



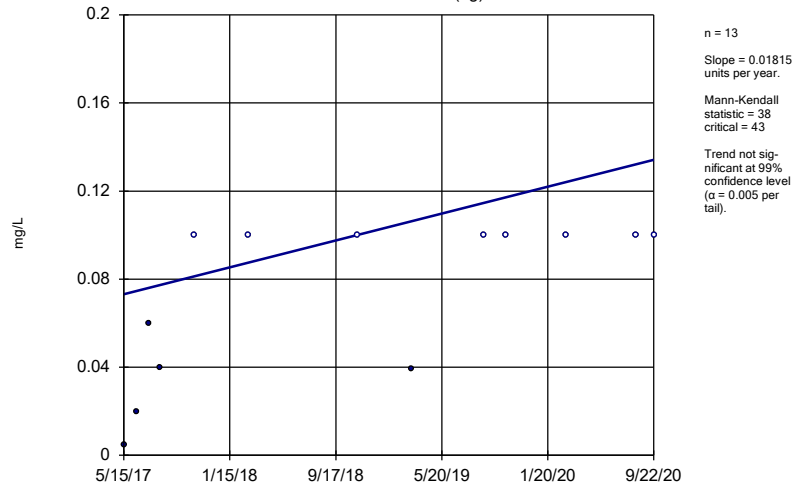
Constituent: Chloride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



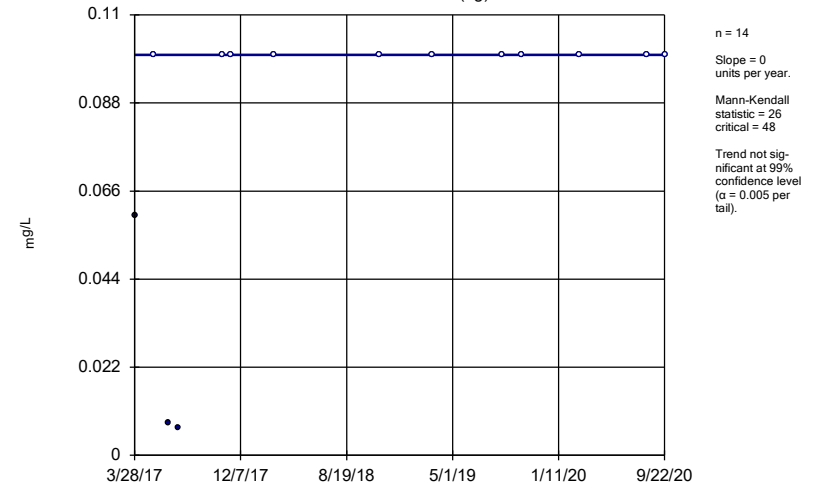
Constituent: Fluoride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-70A (bg)



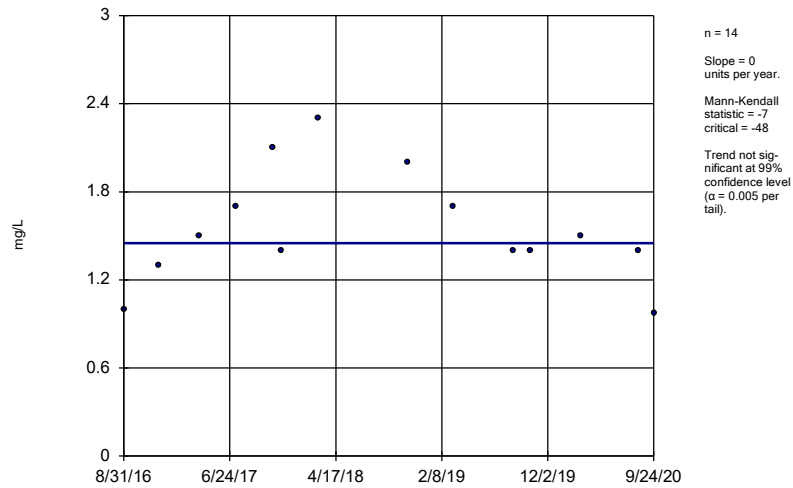
Constituent: Fluoride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-71 (bg)



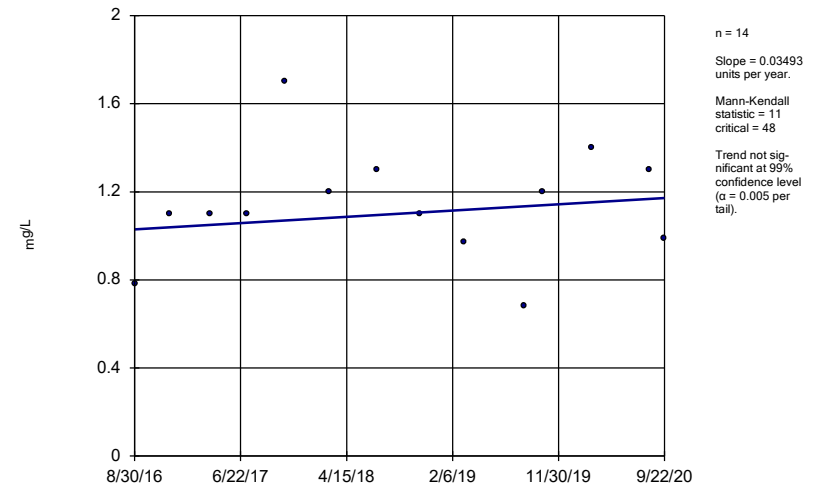
Constituent: Fluoride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-10



Constituent: Fluoride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

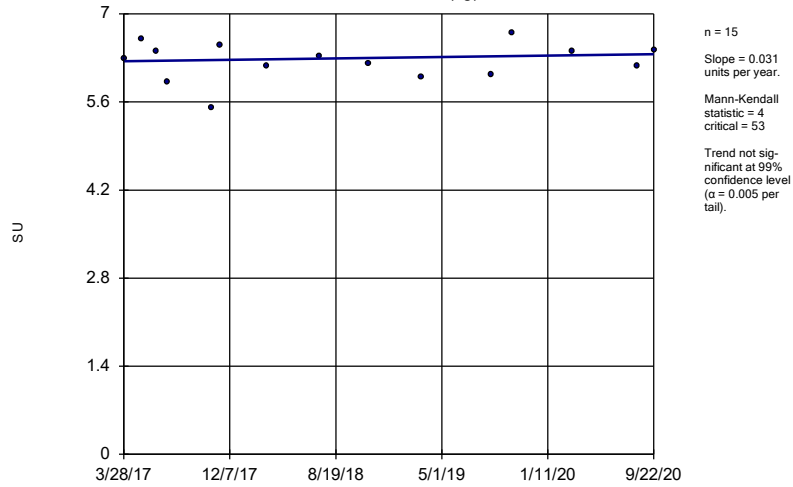
Sen's Slope Estimator
DGWC-9



Constituent: Fluoride Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

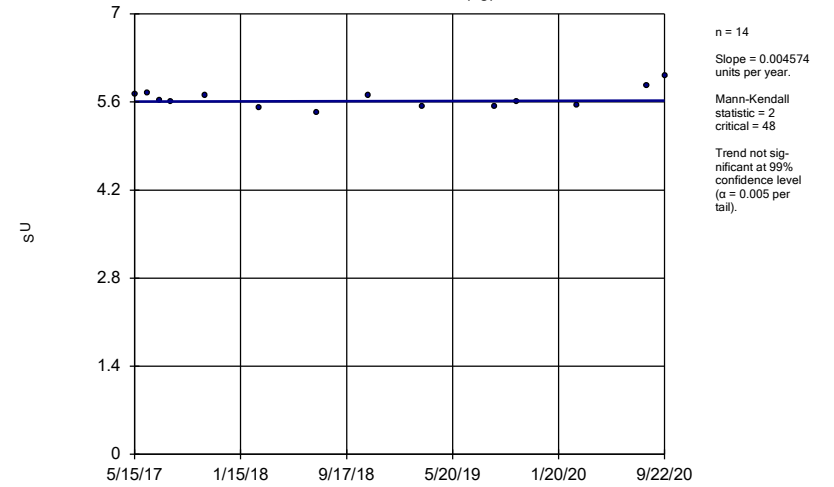
DGWA-53 (bg)



Constituent: pH Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

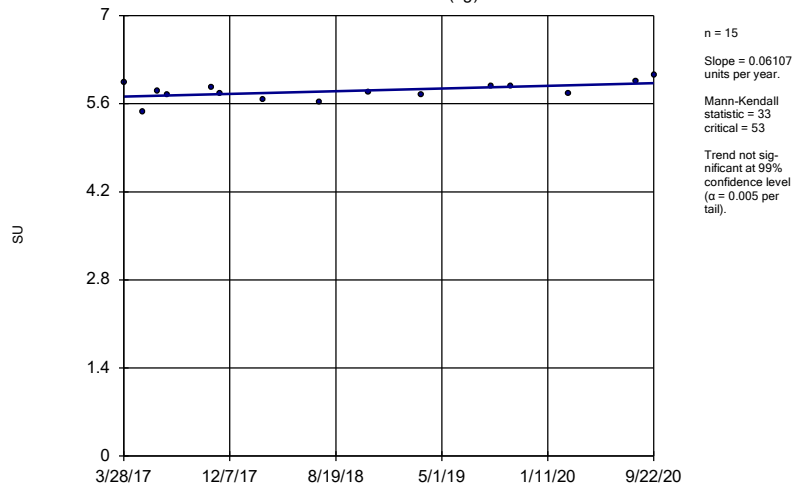
DGWA-70A (bg)



Constituent: pH Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

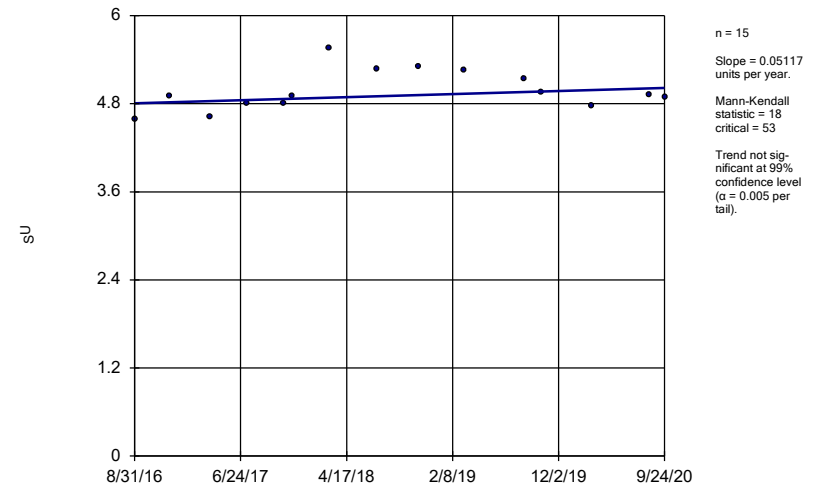
DGWA-71 (bg)



Constituent: pH Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

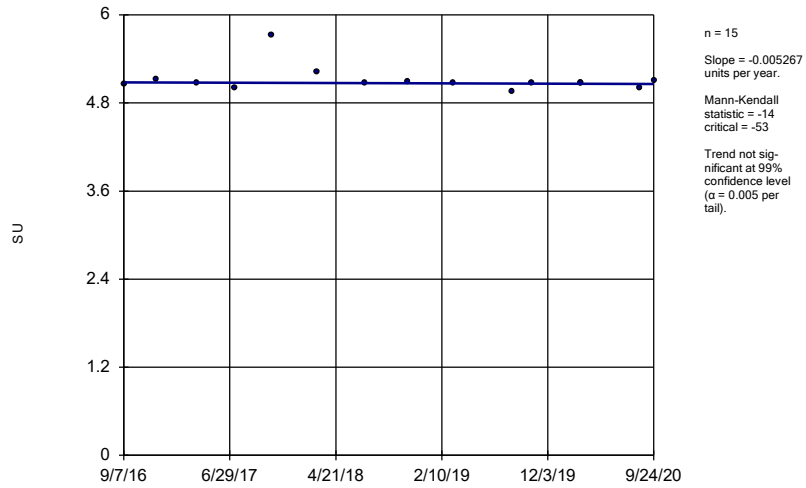
Sen's Slope Estimator

DGWC-10



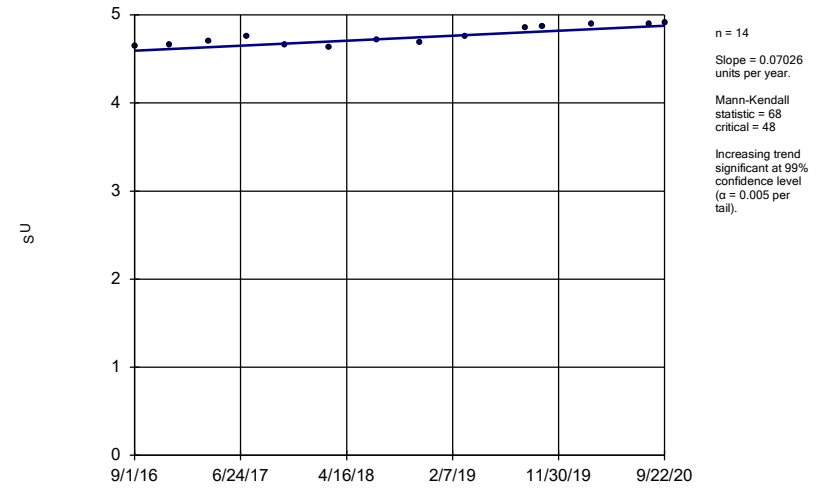
Constituent: pH Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-17



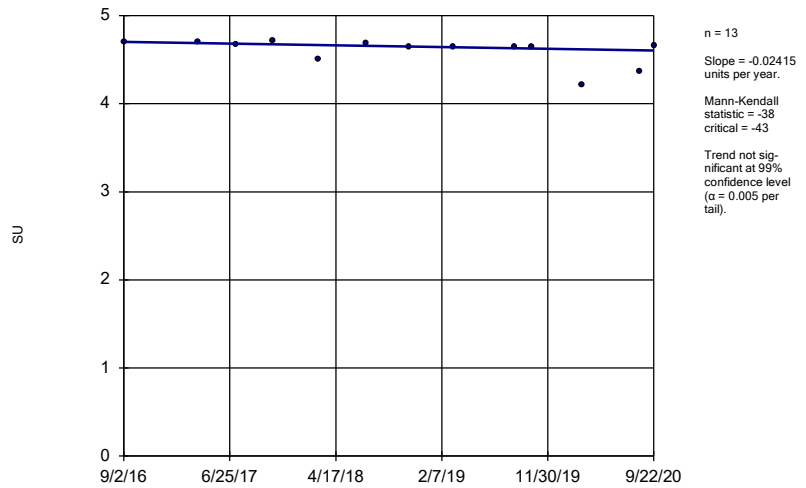
Constituent: pH Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



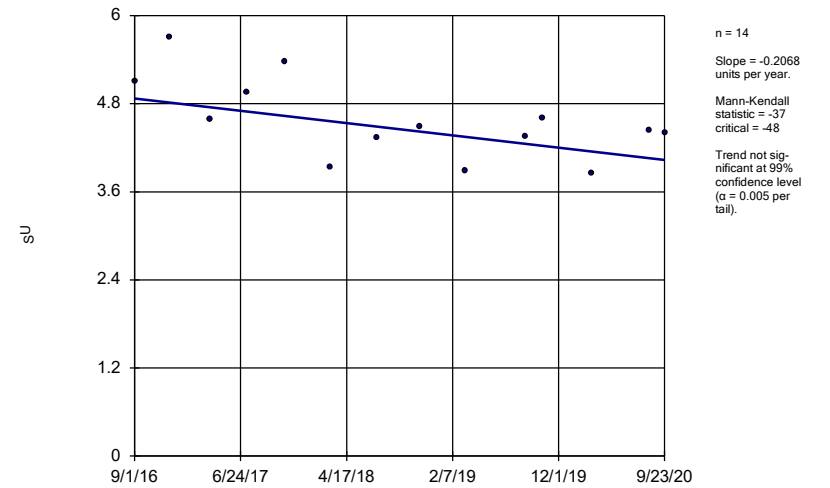
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



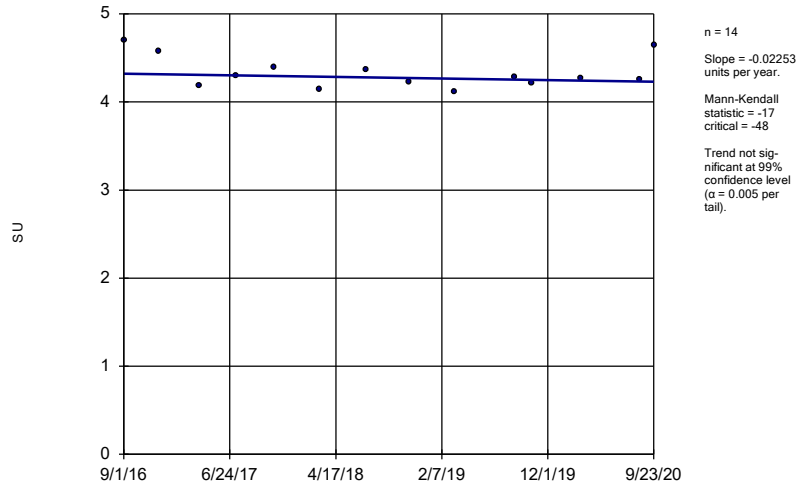
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-47



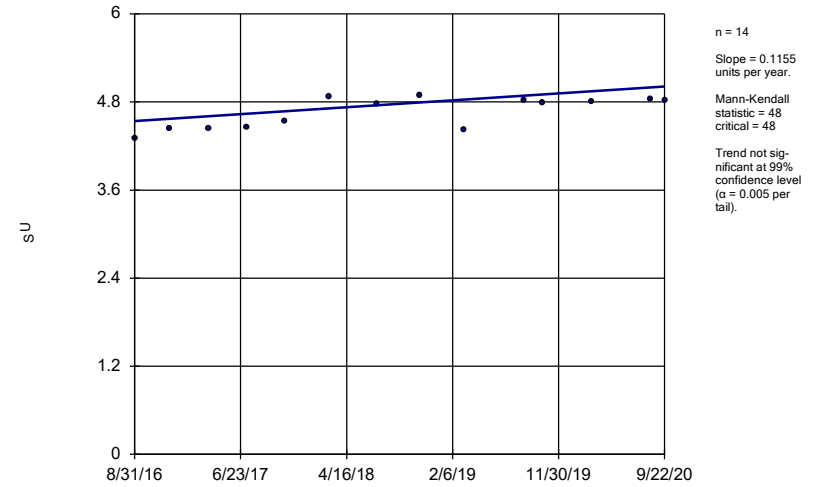
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-48



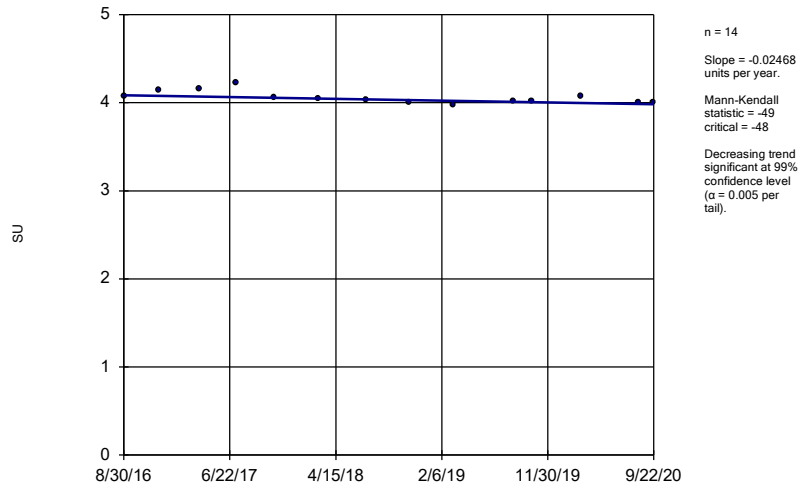
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-5



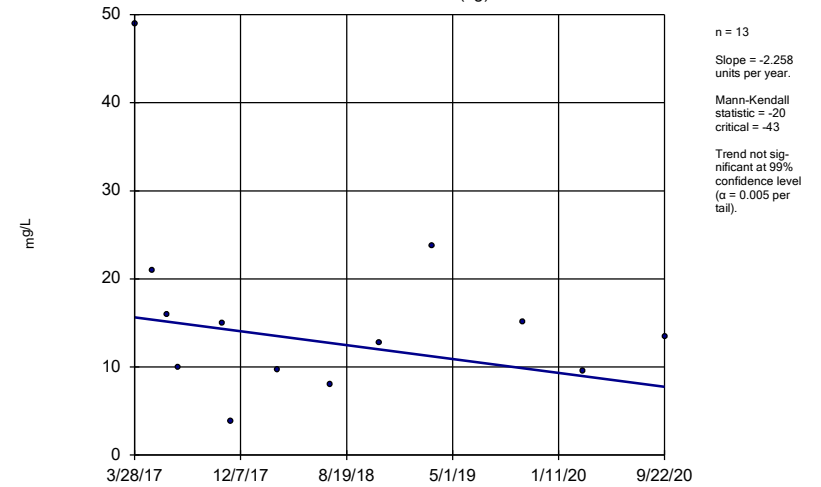
Constituent: pH Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



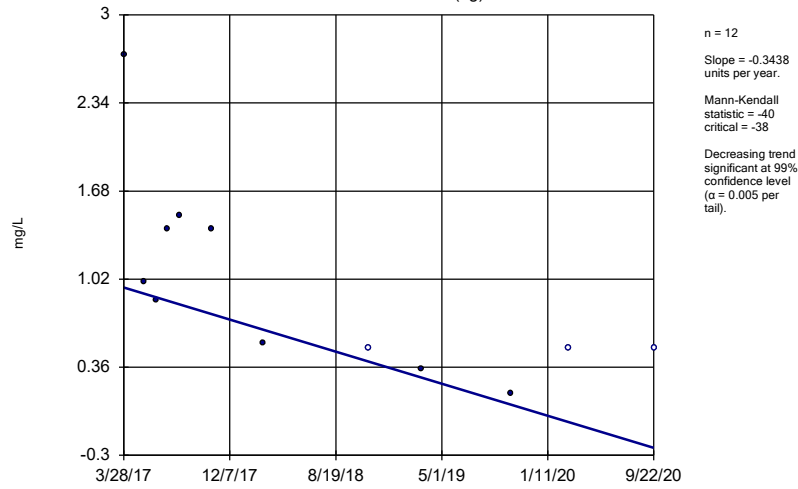
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



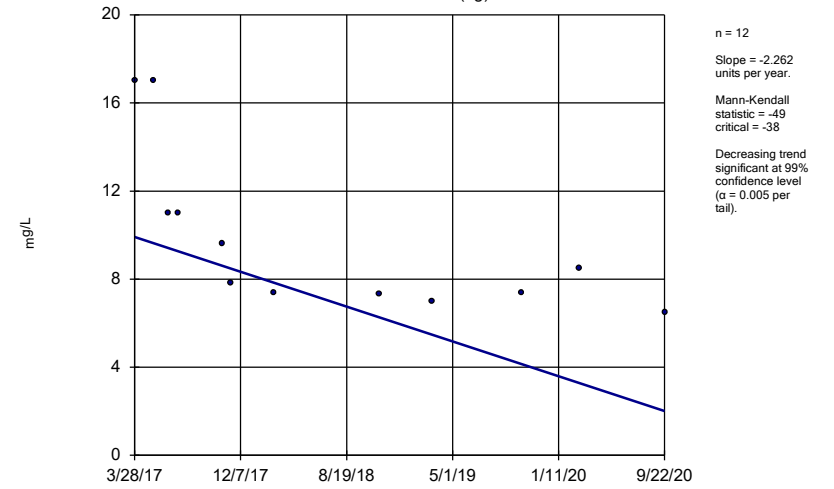
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWA-70A (bg)



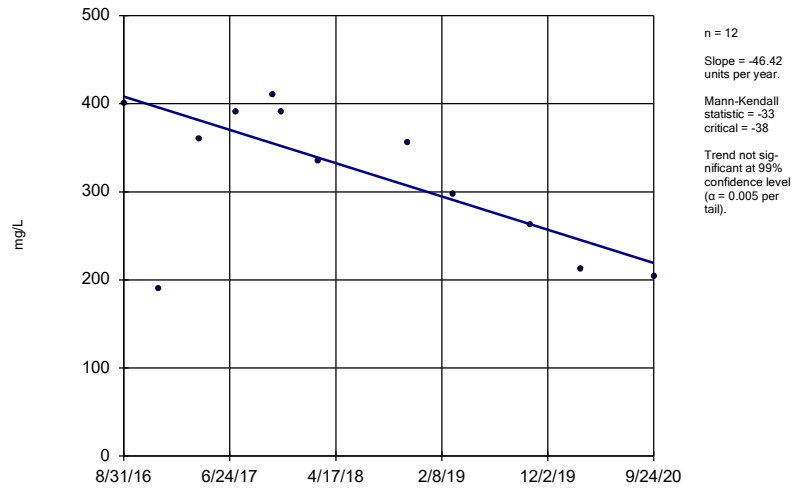
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWA-71 (bg)



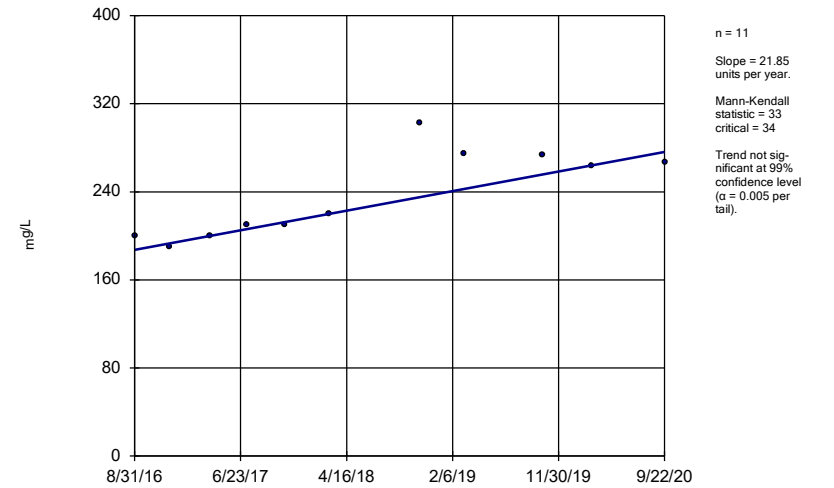
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
 DGWC-10



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

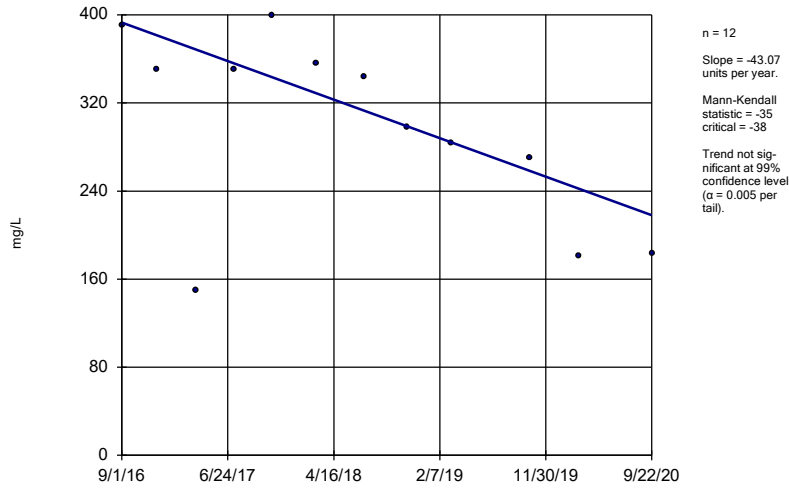
Sen's Slope Estimator
 DGWC-11



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

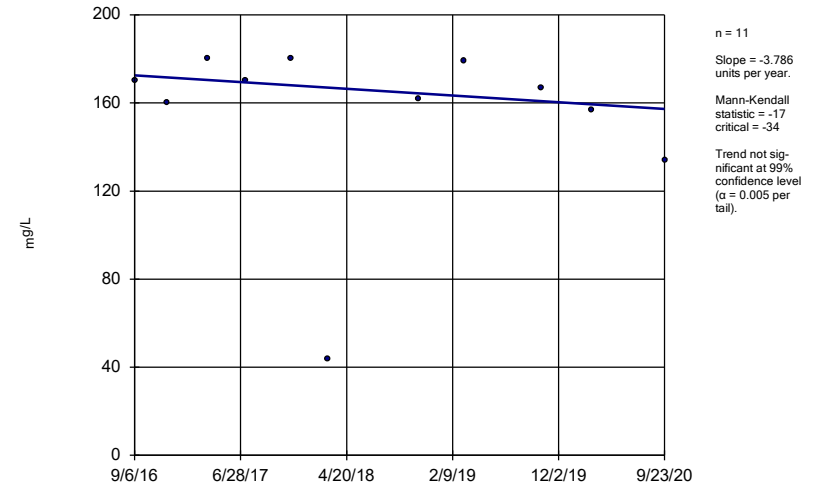
DGWC-12



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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

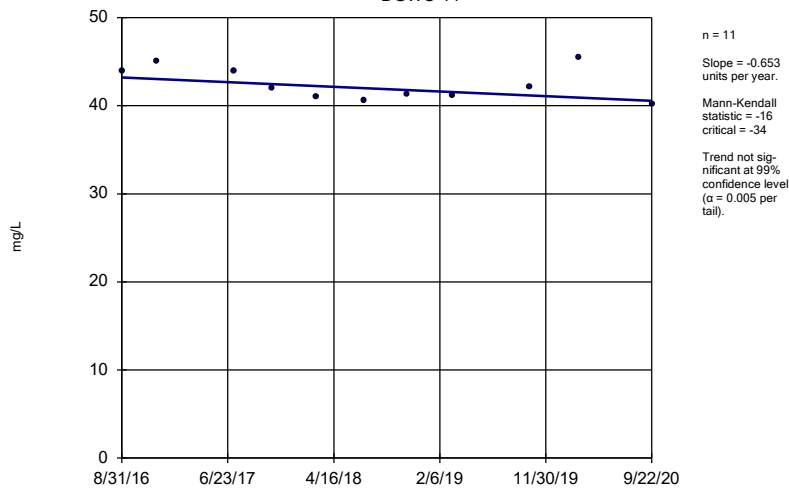
DGWC-13



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

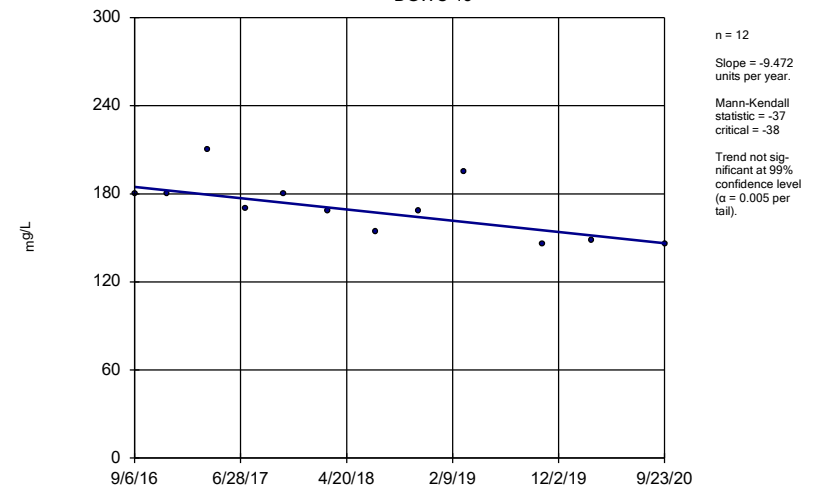
DGWC-14



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

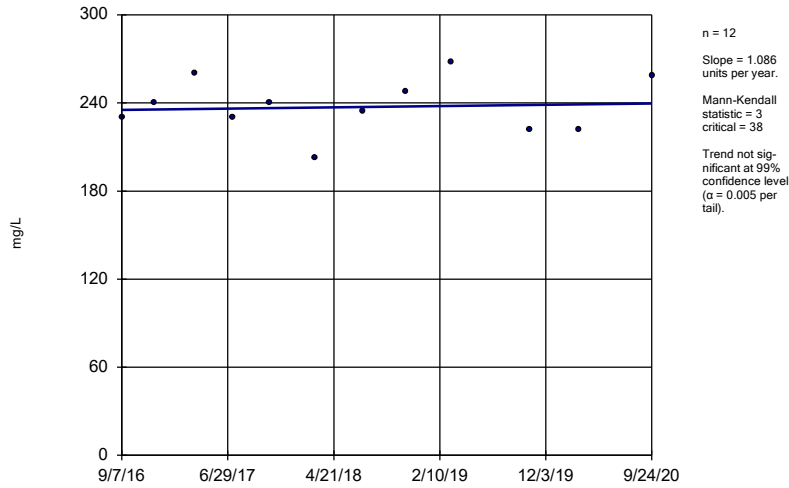
Sen's Slope Estimator

DGWC-15



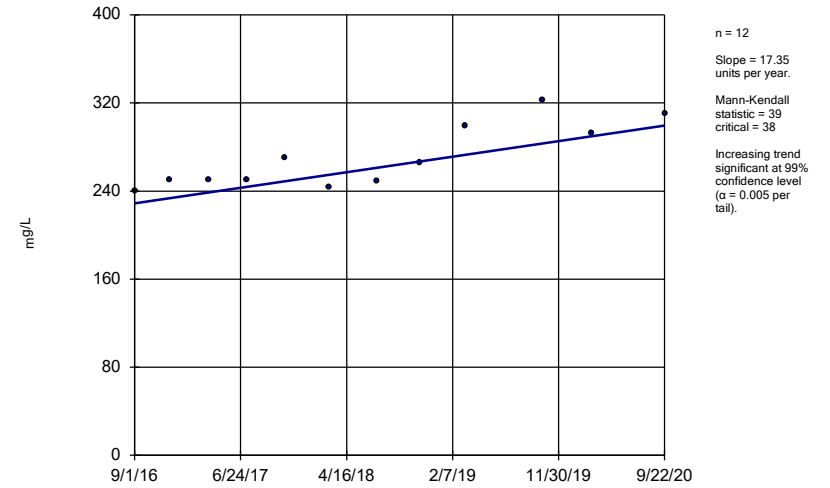
Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-17



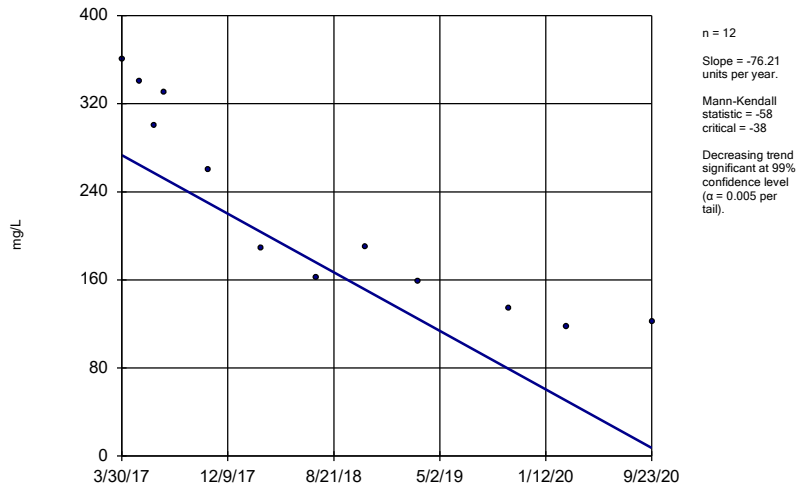
Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



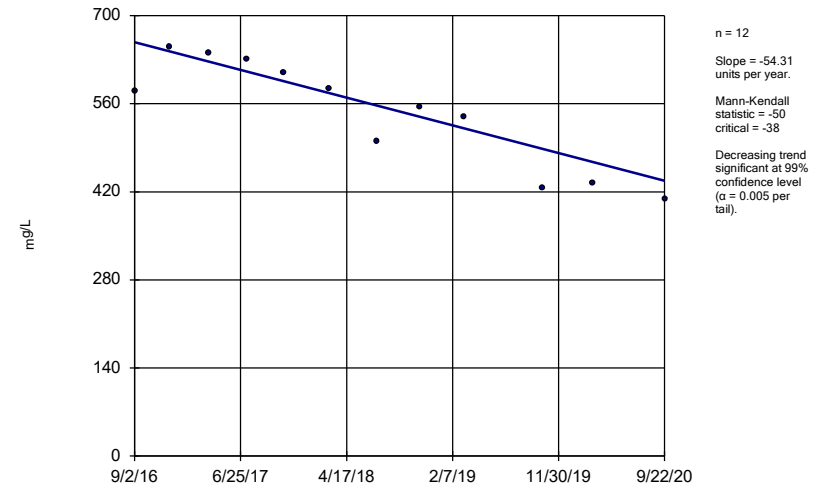
Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-2



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

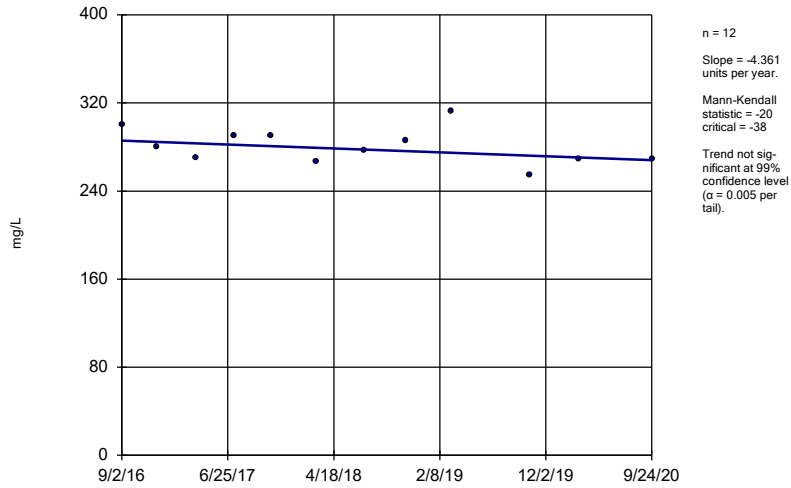
Sen's Slope Estimator
DGWC-20



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

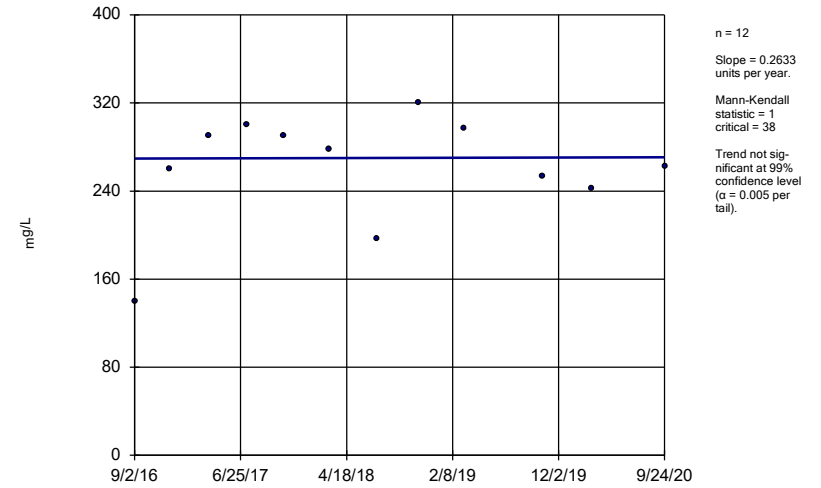
DGWC-21



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

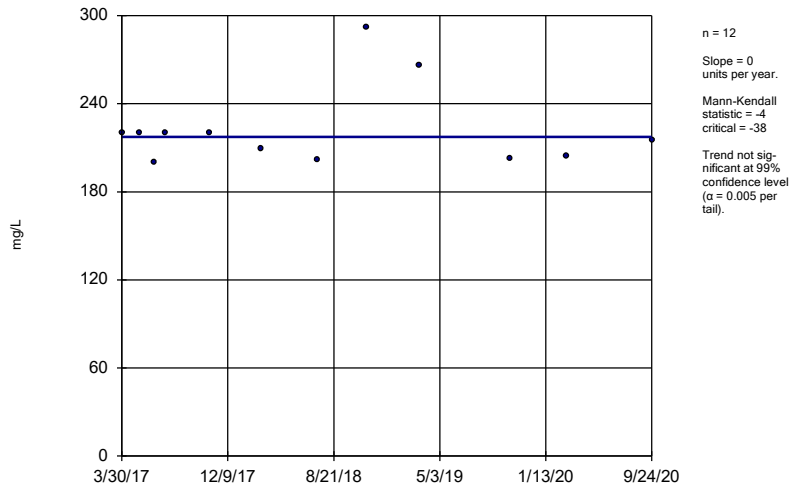
DGWC-22



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

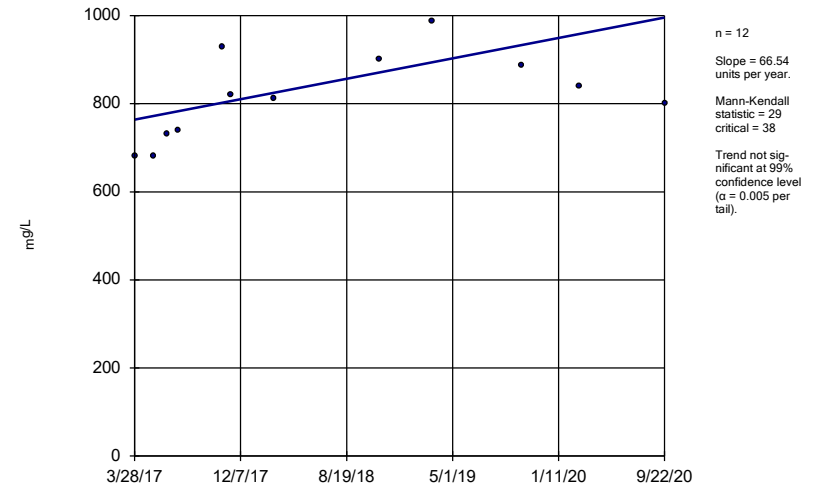
DGWC-23



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

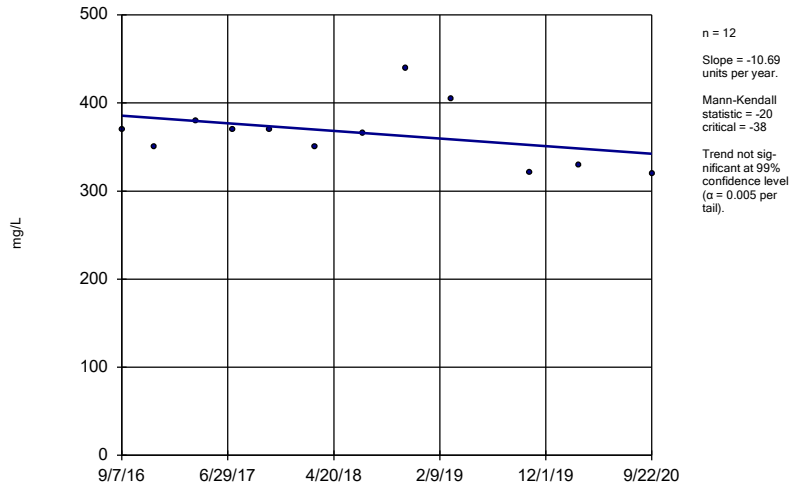
DGWC-4



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

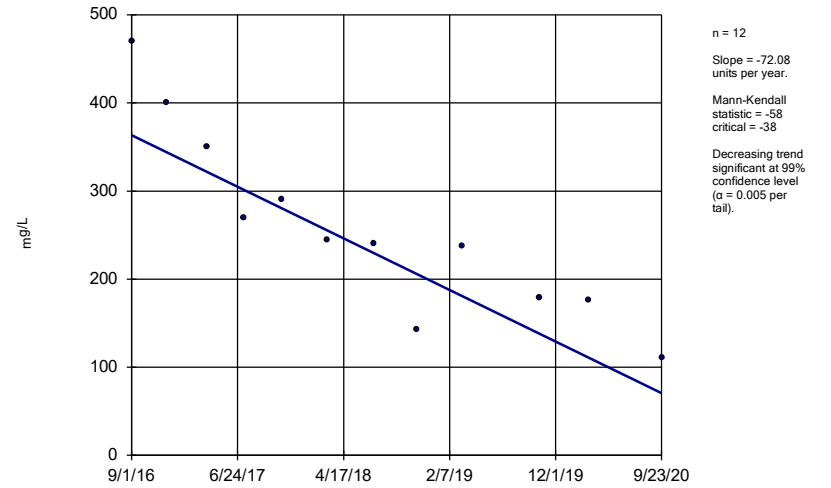
DGWC-42



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

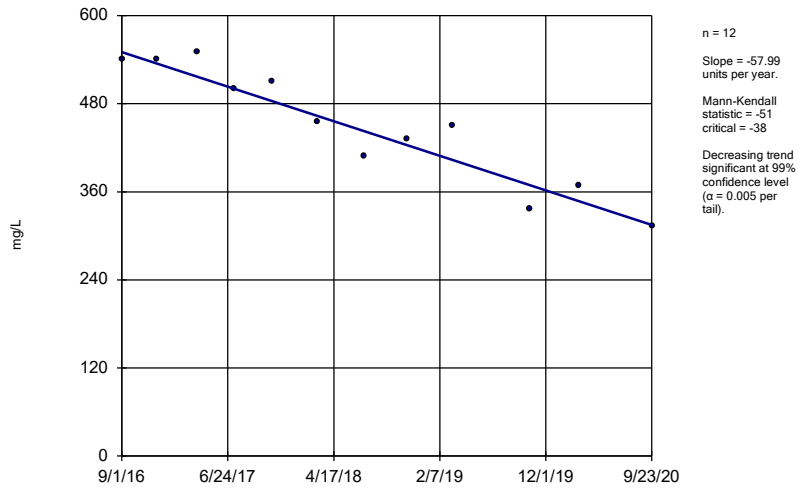
DGWC-47



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

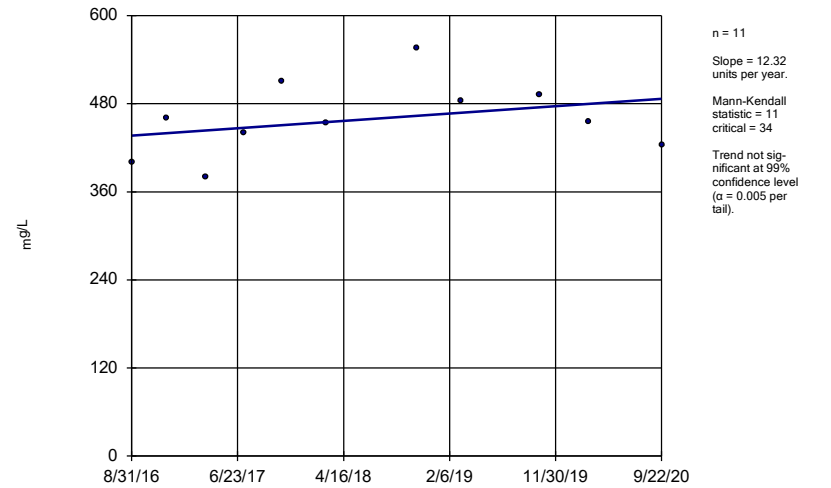
DGWC-48



Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

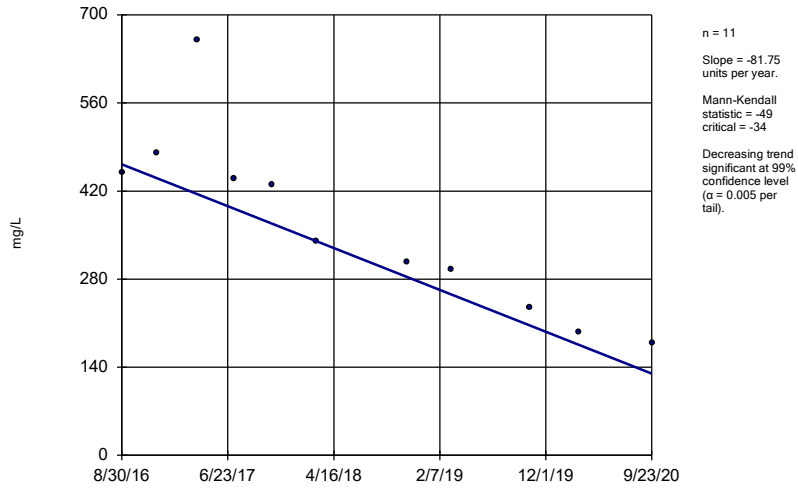
Sen's Slope Estimator

DGWC-5



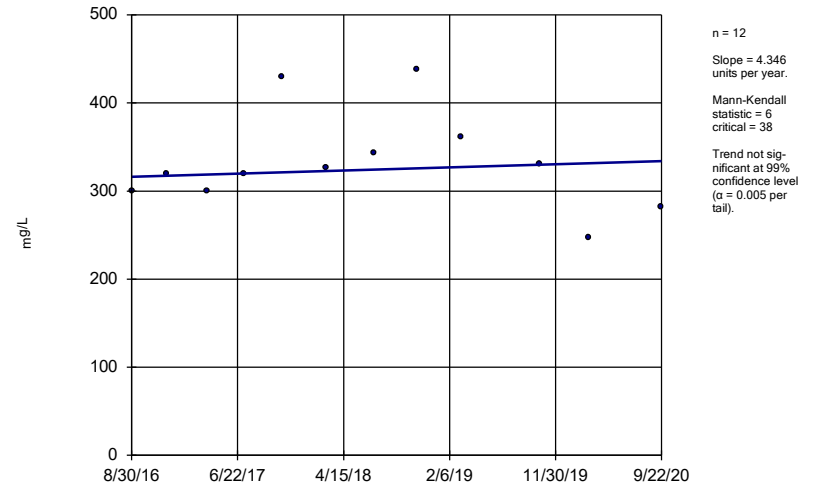
Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-8



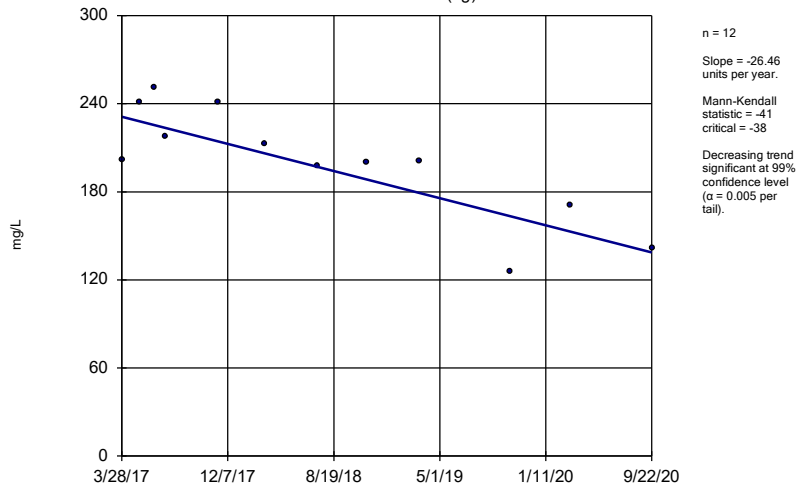
Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWC-9



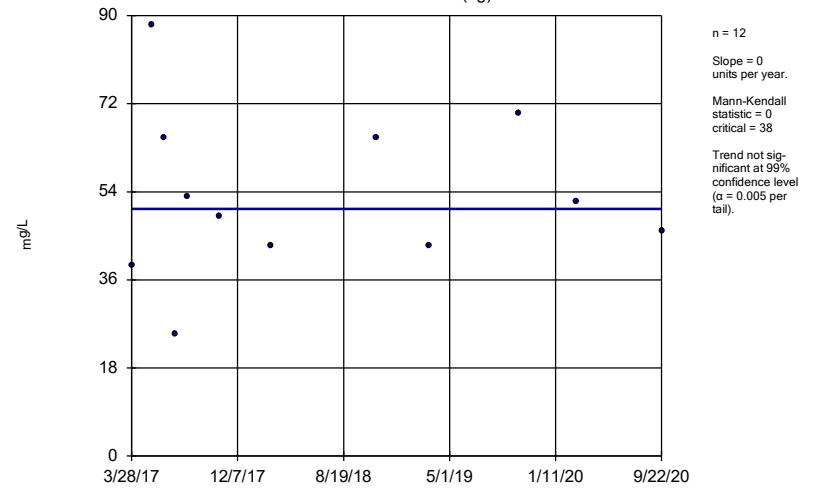
Constituent: Sulfate Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator DGWA-53 (bg)



Constituent: TDS Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

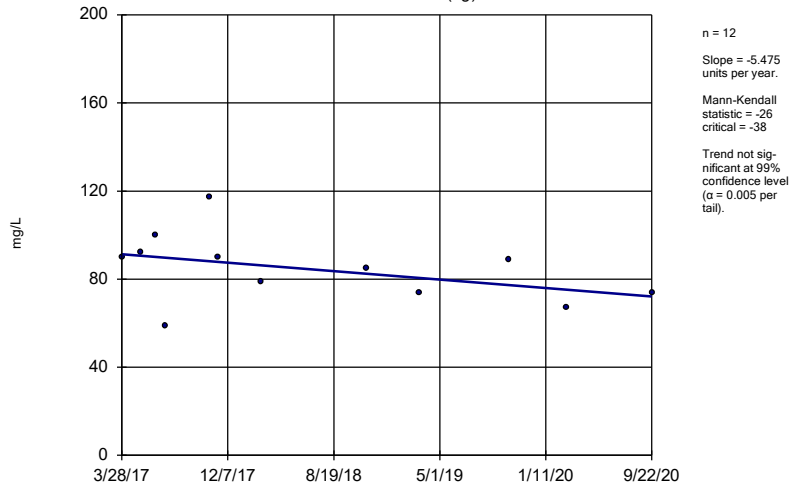
Sen's Slope Estimator DGWA-70A (bg)



Constituent: TDS Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

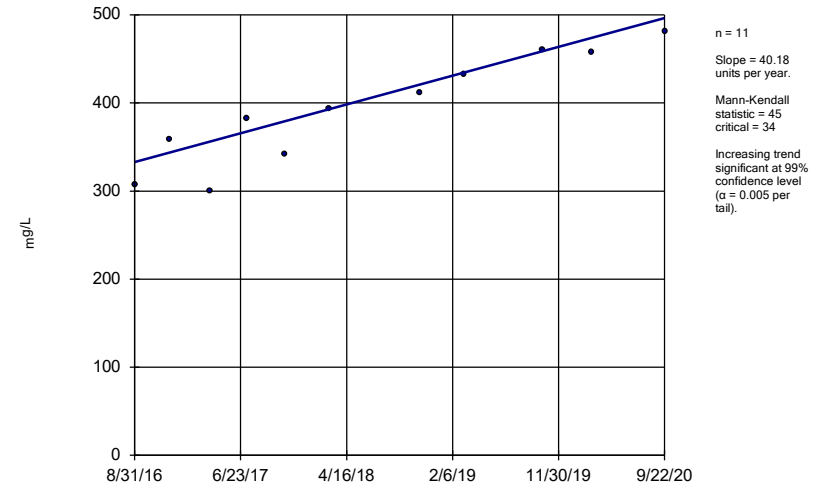
DGWA-71 (bg)



Constituent: TDS Analysis Run 11/4/2020 3:39 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

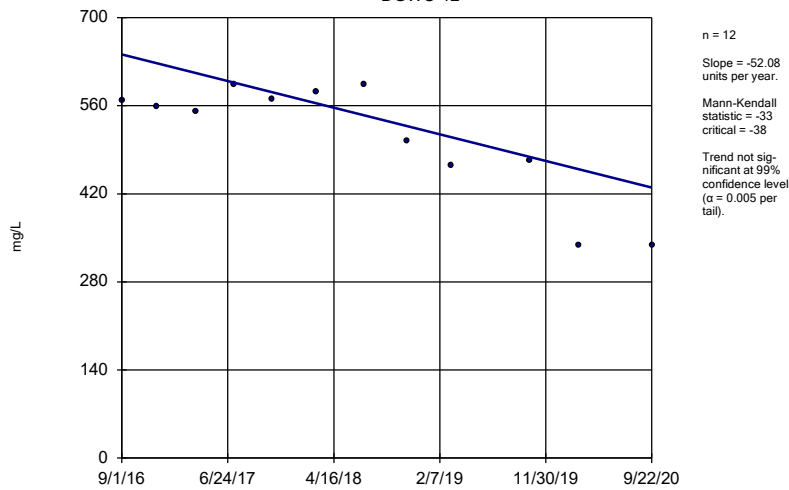
DGWC-11



Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

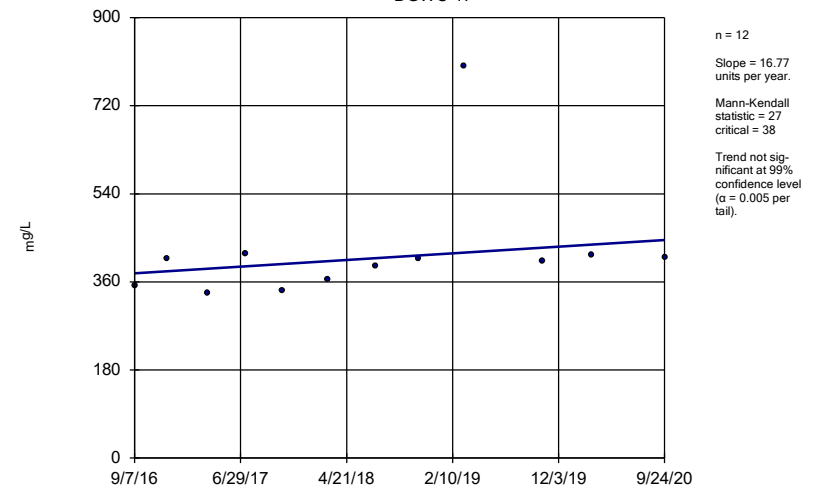
DGWC-12



Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

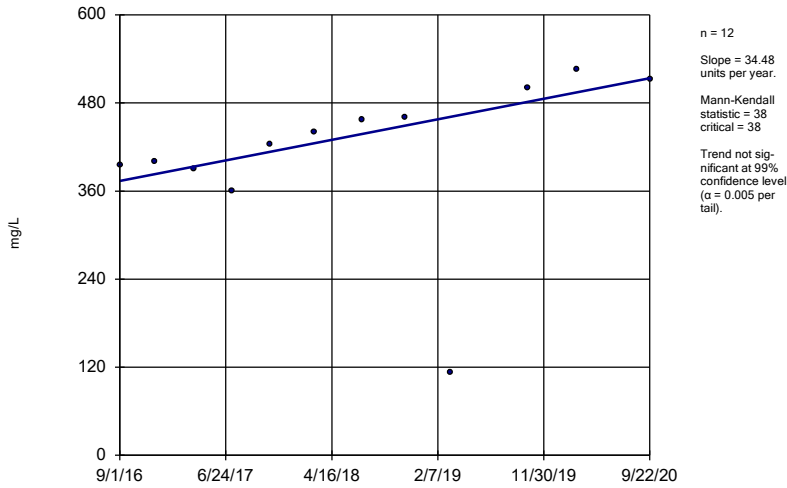
Sen's Slope Estimator

DGWC-17



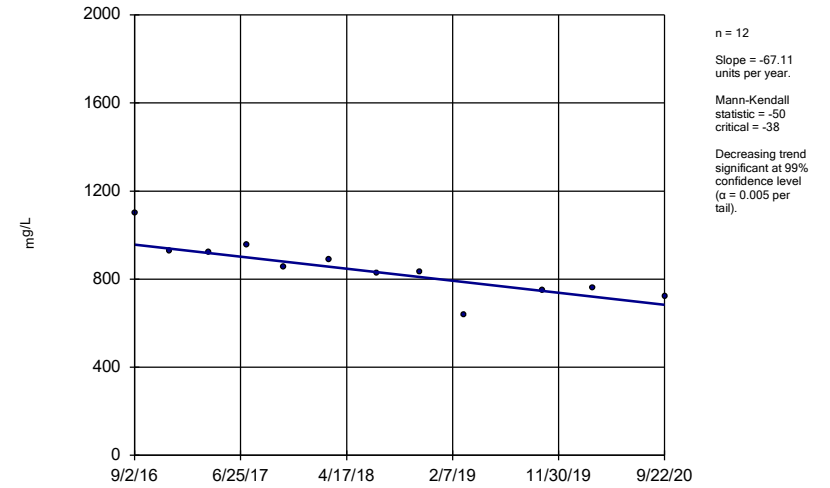
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-19



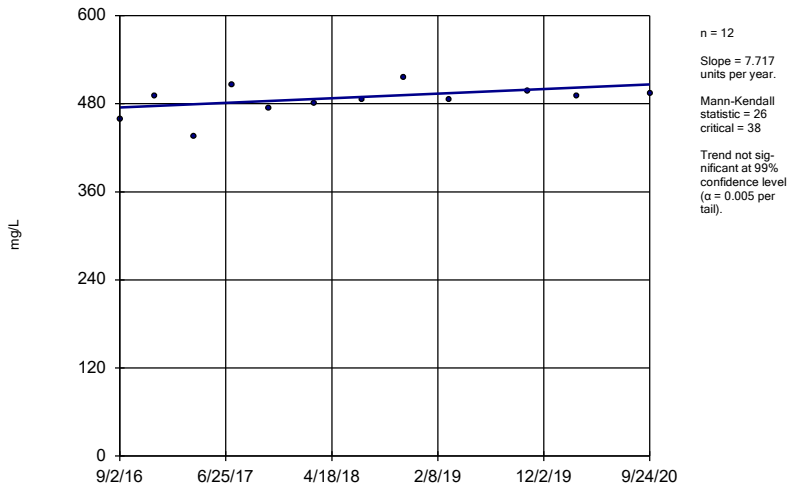
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-20



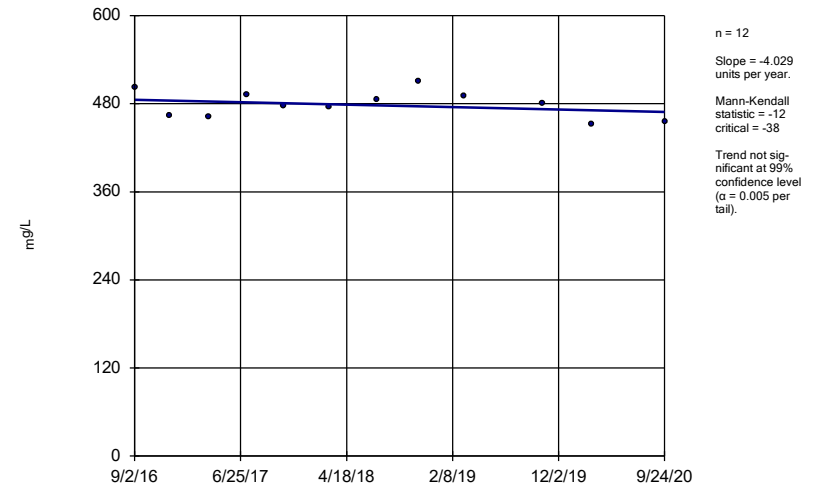
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-21



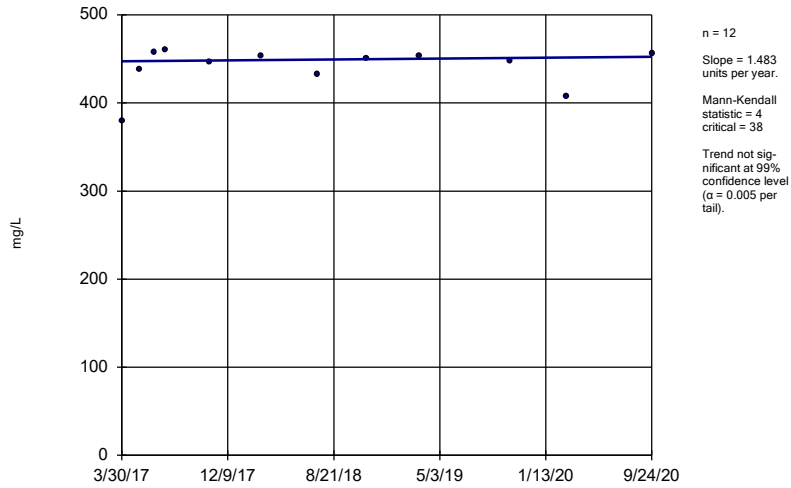
Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-22



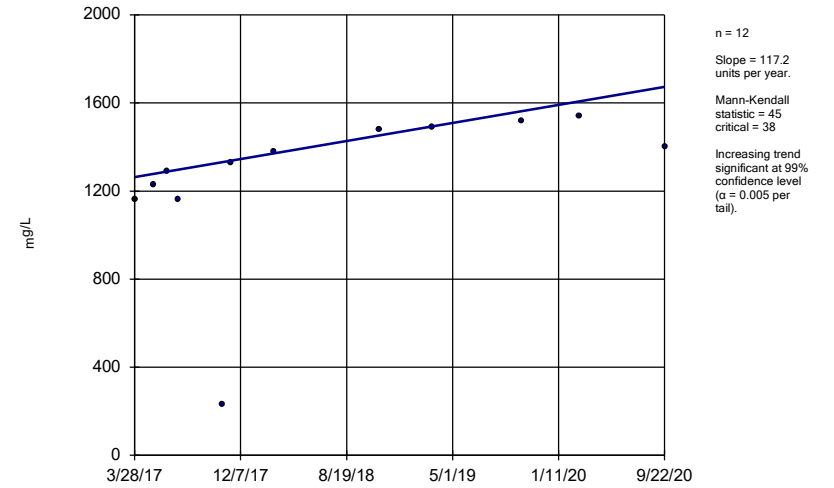
Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-23



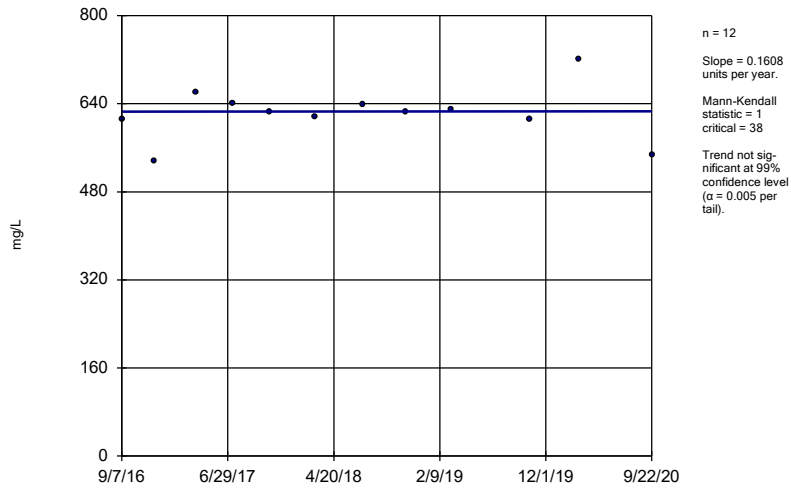
Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-4



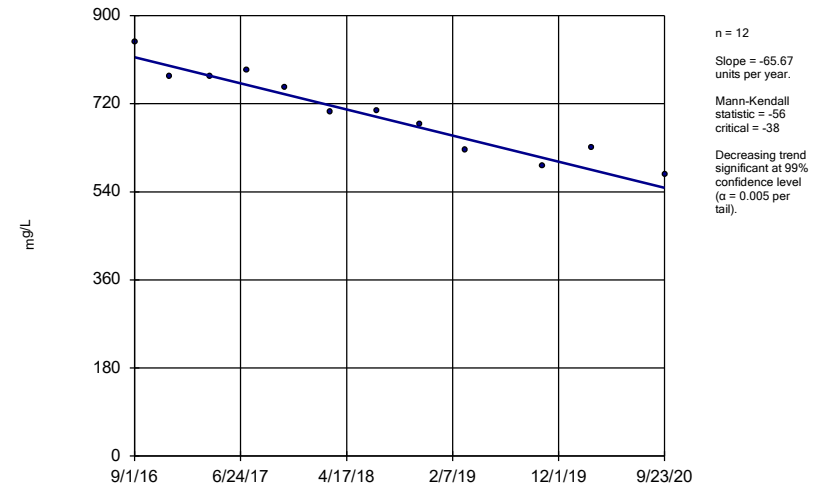
Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-42



Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

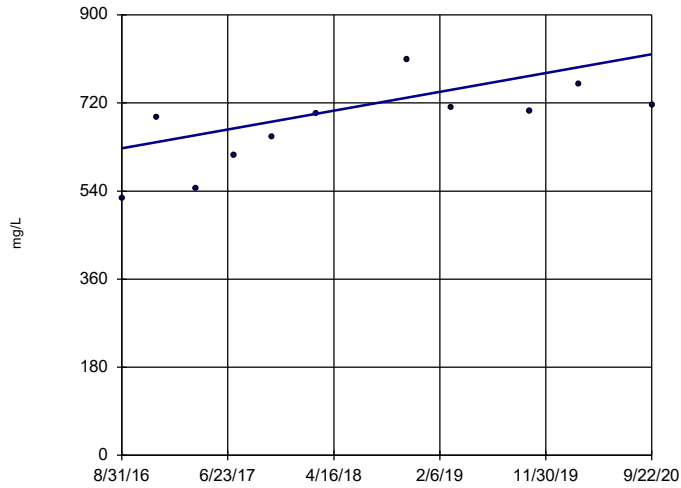
Sen's Slope Estimator
DGWC-48



Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-5

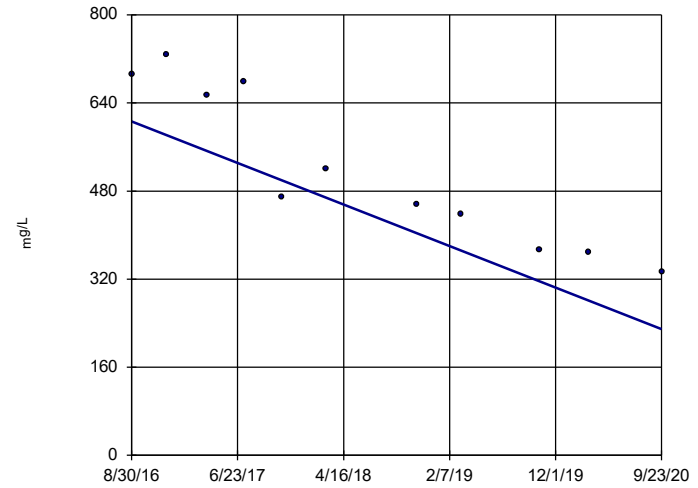


n = 11
 Slope = 47.26 units per year.
 Mann-Kendall statistic = 37
 critical = 34
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-8

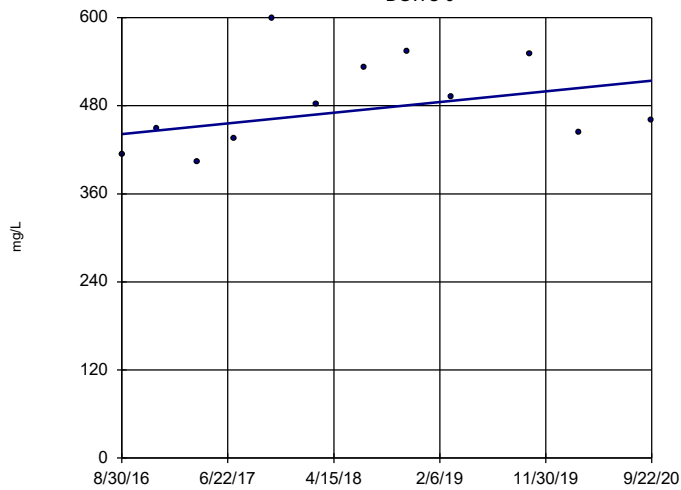


n = 11
 Slope = -92.7 units per year.
 Mann-Kendall statistic = -49
 critical = -34
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-9



n = 12
 Slope = 17.89 units per year.
 Mann-Kendall statistic = 18
 critical = 38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 11/4/2020 3:40 PM View: Trend Tests - Federal
 Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

Tolerance Limit Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/4/2020, 3:11 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.0030	38	n/a	n/a	81.58	n/a	n/a	0.1424	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0050	38	n/a	n/a	78.95	n/a	n/a	0.1424	NP Inter(NDs)
Barium (mg/L)	n/a	0.19	38	n/a	n/a	0	n/a	n/a	0.1424	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0030	38	n/a	n/a	73.68	n/a	n/a	0.1424	NP Inter(normality)
Cadmium (mg/L)	n/a	0.0025	38	n/a	n/a	92.11	n/a	n/a	0.1424	NP Inter(NDs)
Chromium (mg/L)	n/a	0.010	37	n/a	n/a	54.05	n/a	n/a	0.1499	NP Inter(normality)
Cobalt (mg/L)	n/a	0.07	38	-5.867	1.496	31.58	Kaplan-Meier	ln(x)	0.05	Inter
Combined Radium 226 + 228 (pCi/L)	n/a	5.9	40	1.062	0.3514	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	n/a	0.42	42	n/a	n/a	50	n/a	n/a	0.116	NP Inter(normality)
Lead (mg/L)	n/a	0.0050	38	n/a	n/a	76.32	n/a	n/a	0.1424	NP Inter(NDs)
Lithium (mg/L)	n/a	0.030	38	n/a	n/a	36.84	n/a	n/a	0.1424	NP Inter(normality)
Mercury (mg/L)	n/a	0.00050	38	n/a	n/a	89.47	n/a	n/a	0.1424	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.041	38	n/a	n/a	63.16	n/a	n/a	0.1424	NP Inter(normality)
Selenium (mg/L)	n/a	0.010	38	n/a	n/a	100	n/a	n/a	0.1424	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0010	38	n/a	n/a	94.74	n/a	n/a	0.1424	NP Inter(NDs)

FIGURE G.

MCDONOUGH AP-1 GWPS TABLE					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.19	2	2
Beryllium, Total (mg/L)	0.004		0.003	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.032	0.032	0.032
Combined Radium, Total (pCi/L)	5		5.92	5.92	5.92
Fluoride, Total (mg/L)	4		0.42	4	4
Lead, Total (mg/L)	n/a	0.015	0.005	0.015	0.005
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0005	0.002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.041	0.1	0.041
Selenium, Total (mg/L)	0.05		0.01	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule Specified levels.*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Federal Confidence Interval Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 3:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03066	0.01584	0.01	Yes 13	0.02325	0.009966	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009456	0.005244	0.004	Yes 12	0.00735	0.002684	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01338	0.009172	0.004	Yes 13	0.01128	0.002831	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009497	0.007719	0.004	Yes 13	0.008608	0.001195	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.009007	0.00606	0.004	Yes 12	0.007533	0.001878	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.006036	0.004933	0.004	Yes 13	0.005485	0.0007414	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.194	0.1479	0.032	Yes 12	0.1671	0.03784	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05328	0.04876	0.032	Yes 13	0.05102	0.003039	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6453	0.4536	0.032	Yes 13	0.5495	0.1289	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.4062	0.2647	0.032	Yes 13	0.3355	0.09515	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5235	0.415	0.032	Yes 13	0.4692	0.07295	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09482	0.04891	0.032	Yes 12	0.07187	0.02925	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2018	0.136	0.032	Yes 13	0.1689	0.04419	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.0771	0.06002	0.04	Yes 13	0.06856	0.01149	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.13	0.1093	0.04	Yes 13	0.1197	0.01391	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1415	0.05002	0.05	Yes 13	0.09574	0.06149	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
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No 14	0.002807	0.0007216	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No 13	0.002854	0.000527	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No 13	0.00262	0.0009312	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No 13	0.002804	0.0007072	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No 13	0.002797	0.0007322	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No 13	0.002815	0.0006656	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No 13	0.002869	0.0004715	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No 13	0.002823	0.0006379	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No 12	0.002615	0.0009004	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No 13	0.002862	0.0004992	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.00039	0.006	No 13	0.002799	0.0007239	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.00032	0.006	No 12	0.002777	0.0007736	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.00722	0.00308	0.01	No 12	0.00515	0.002638	8.333	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No 14	0.004374	0.001592	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No 13	0.004645	0.001279	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.00064	0.01	No 13	0.004042	0.001828	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.00073	0.01	No 13	0.003148	0.00209	53.85	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-19	0.005	0.00049	0.01	No 13	0.002365	0.001645	23.08	None	No	0.01	NP (Cohens/xfm)
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No 13	0.004499	0.001261	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01699	0.006683	0.01	No 13	0.01184	0.006934	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No 13	0.004692	0.001109	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0005	0.01	No 12	0.0039	0.001991	75	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No 13	0.004369	0.001542	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.003855	0.001418	0.01	No 13	0.002523	0.001439	15.38	Cohen's	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.00079	0.01	No 13	0.00293	0.002018	46.15	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-5	0.0203	0.0032	0.01	No 12	0.009483	0.01044	16.67	None	No	0.01	NP (Cohens/xfm)
Arsenic (mg/L)	DGWC-8	0.005	0.001	0.01	No 12	0.003472	0.001906	58.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-9	0.03066	0.01584	0.01	Yes 13	0.02325	0.009966	7.692	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.03055	0.02357	2	No 12	0.02706	0.004448	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06805	0.05751	2	No 12	0.06278	0.006717	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03036	0.02319	2	No 14	0.02691	0.005363	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03355	0.02707	2	No 12	0.02917	0.007981	8.333	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06272	0.05738	2	No 13	0.06005	0.003589	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05171	0.04502	2	No 13	0.04836	0.0045	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05844	0.04436	2	No 13	0.0514	0.009465	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02536	0.02124	2	No 13	0.0233	0.002771	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02269	0.02115	2	No 13	0.02192	0.001038	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01488	0.008707	2	No 13	0.01179	0.004149	7.692	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.0252	2	No 13	0.02634	0.001198	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03853	0.03293	2	No 13	0.03573	0.003765	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02432	0.01814	2	No 13	0.02131	0.004373	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.0363	0.03	2	No 12	0.03397	0.002586	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-42	0.02101	0.01682	2	No 13	0.01895	0.002948	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01952	0.01539	2	No 13	0.01745	0.00278	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0145	0.0129	2	No 13	0.0137	0.001075	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01858	0.01676	2	No 11	0.01767	0.001092	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03968	0.02782	2	No 12	0.03375	0.007562	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01485	2	No 13	0.01554	0.0009287	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009456	0.005244	0.004	Yes 12	0.00735	0.002684	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00012	0.004	No 12	0.001807	0.001475	58.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00017	0.004	No 14	0.0006153	0.001014	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No 12	0.002268	0.001324	75	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No 13	0.00256	0.001075	84.62	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00071	0.0005	0.004	No 13	0.0009623	0.0009065	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.003	0.0017	0.004	No 13	0.002077	0.0004304	15.38	None	No	0.01	NP (normality)

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-20	0.0063	0.0026	0.004	No 13	0.003808	0.001906	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-21	0.003	0.0001	0.004	No 13	0.0005969	0.001067	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.003	0.00014	0.004	No 13	0.0006054	0.001063	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.00077	0.00038	0.004	No 13	0.0008285	0.0009694	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.003	0.0001	0.004	No 12	0.0006617	0.001093	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002873	0.002173	0.004	No 13	0.002523	0.0004711	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01338	0.009172	0.004	Yes 13	0.01128	0.002831	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009497	0.007719	0.004	Yes 13	0.008608	0.001195	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.009007	0.00606	0.004	Yes 12	0.007533	0.001878	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003446	0.001804	0.004	No 12	0.002625	0.001046	8.333	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.006036	0.004933	0.004	Yes 13	0.005485	0.0007414	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001267	0.0008381	0.005	No 12	0.001053	0.0002733	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0025	0.00016	0.005	No 12	0.002107	0.0009187	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.001	0.00025	0.005	No 14	0.0006893	0.00079	21.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-13	0.0025	0.0002	0.005	No 12	0.002107	0.000919	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.0025	0.00012	0.005	No 13	0.001648	0.001145	69.23	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-17	0.00033	0.00024	0.005	No 13	0.0006169	0.0008366	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.001	0.00033	0.005	No 13	0.0005838	0.0006022	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.001	0.00013	0.005	No 13	0.0006538	0.0008526	23.08	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002229	0.001771	0.005	No 13	0.002	0.0003082	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.001	0.00054	0.005	No 13	0.0008085	0.0005286	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-22	0.001	0.0004	0.005	No 13	0.0007354	0.0005646	15.38	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-23	0.001	0.0002	0.005	No 13	0.00047	0.0006466	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.001	0.0005	0.005	No 12	0.00086	0.0005345	16.67	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-42	0.0024	0.00037	0.005	No 13	0.001042	0.0007112	15.38	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-47	0.002295	0.001198	0.005	No 13	0.001746	0.0007378	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.004529	0.002389	0.005	No 13	0.0036	0.001801	0	None	In(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.001	0.0002	0.005	No 12	0.0007592	0.000611	16.67	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-8	0.002601	0.002016	0.005	No 12	0.002308	0.0003728	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.001	0.0005	0.005	No 13	0.0007531	0.0005442	15.38	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-10	0.01	0.0007	0.1	No 12	0.003883	0.004519	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.01	0.0006	0.1	No 12	0.006866	0.004629	66.67	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-12	0.01	0.00094	0.1	No 14	0.009353	0.002421	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.01	0.00066	0.1	No 12	0.006907	0.004568	66.67	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-15	0.01	0.0005	0.1	No 13	0.007411	0.004182	69.23	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No 13	0.003862	0.00275	15.38	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.01	0.0023	0.1	No 13	0.0043	0.003261	23.08	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.01	0.00046	0.1	No 13	0.006348	0.004808	61.54	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-20	0.01	0.0015	0.1	No 13	0.004985	0.004154	38.46	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.01	0.00048	0.1	No 13	0.006381	0.004767	61.54	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-22	0.01	0.0012	0.1	No 13	0.009323	0.002441	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.01	0.00041	0.1	No 13	0.00357	0.004467	30.77	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.01	0.0005	0.1	No 12	0.009208	0.002742	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.01	0.00042	0.1	No 13	0.005095	0.004745	46.15	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-47	0.01	0.0007	0.1	No 13	0.009285	0.002579	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.01	0.0007	0.1	No 13	0.008546	0.003549	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.01	0.00045	0.1	No 12	0.009204	0.002757	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.01	0.00061	0.1	No 12	0.006331	0.004571	58.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-9	0.01	0.00051	0.1	No 13	0.006792	0.004421	61.54	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-10	0.194	0.1479	0.032	Yes 12	0.1671	0.03784	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No 12	0.001606	0.0009402	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.0079	0.0021	0.032	No 14	0.006143	0.007268	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0004	0.032	No 12	0.001982	0.0009381	75	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-15	0.0042	0.0018	0.032	No 13	0.003992	0.00635	7.692	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02807	0.02097	0.032	No 13	0.02399	0.006439	7.692	None	x^2	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
Cobalt (mg/L)	DGWC-19	0.05328	0.04876	0.032	Yes 13	0.05102	0.003039	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.02786	0.01119	0.032	No 13	0.01952	0.01121	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6453	0.4536	0.032	Yes 13	0.5495	0.1289	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.01	0.005	0.032	No 13	0.008538	0.002294	15.38	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-22	0.0106	0.005	0.032	No 13	0.008662	0.002396	15.38	None	No	0.01	NP (Cohens/xfm)
Cobalt (mg/L)	DGWC-23	0.005	0.00036	0.032	No 13	0.002044	0.001333	69.23	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.0025	0.0014	0.032	No 12	0.002033	0.000982	16.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04874	0.01994	0.032	No 13	0.03434	0.01937	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.4062	0.2647	0.032	Yes 13	0.3355	0.09515	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5235	0.415	0.032	Yes 13	0.4692	0.07295	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.03614	0.02048	0.032	No 12	0.02902	0.01169	0	None	In(x)	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09482	0.04891	0.032	Yes 12	0.07187	0.02925	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2018	0.136	0.032	Yes 13	0.1689	0.04419	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.533	1.067	5.92	No 13	1.3	0.3132	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.324	0.6257	5.92	No 13	0.975	0.4697	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.119	0.3122	5.92	No 13	0.7574	0.6581	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.536	1.01	5.92	No 13	1.273	0.354	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.156	0.6832	5.92	No 13	0.9195	0.3179	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.736	0.5423	5.92	No 13	1.196	0.9184	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.101	0.5388	5.92	No 13	0.8199	0.3781	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.108	0.5209	5.92	No 13	0.8143	0.3946	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.451	0.8198	5.92	No 13	1.135	0.4243	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.567	0.8478	5.92	No 13	1.207	0.4835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.2	0.6287	5.92	No 13	0.9143	0.3841	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.462	0.779	5.92	No 13	1.121	0.4594	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.482	0.6925	5.92	No 13	1.087	0.5307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.788	1.182	5.92	No 13	1.485	0.4079	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.192	0.6811	5.92	No 13	0.9368	0.3438	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	3.046	1.811	5.92	No 13	2.428	0.8307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.561	1.567	5.92	No 13	2.064	0.6687	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.955	1.022	5.92	No 13	1.489	0.6279	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.8387	0.4284	5.92	No 13	0.6335	0.2759	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.469	0.8959	5.92	No 13	1.182	0.3851	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.819	1.276	4	No 14	1.548	0.3832	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.04	4	No 13	0.07738	0.02685	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-12	0.3	0.071	4	No 14	0.1683	0.153	42.86	None	No	0.01	NP (Cohens/xfm)
Fluoride (mg/L)	DGWC-13	0.2371	0.08721	4	No 13	0.1683	0.1136	7.692	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.052	4	No 14	0.08386	0.02776	64.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-15	0.11	0.079	4	No 14	0.1061	0.04679	57.14	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-17	0.3341	0.1109	4	No 14	0.2225	0.1575	14.29	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-19	0.5725	0.1743	4	No 14	0.3979	0.327	7.143	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.28	0.052	4	No 14	0.1524	0.1678	35.71	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	0.9283	0.3788	4	No 14	0.6536	0.3879	7.143	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.14	0.07	4	No 14	0.108	0.07152	57.14	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-22	0.13	0.09	4	No 14	0.1211	0.06974	42.86	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-23	0.2749	0.09828	4	No 14	0.2011	0.1607	7.143	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.082	4	No 14	0.1416	0.1901	64.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No 14	0.09143	0.02316	85.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	1.228	0.5388	4	No 14	0.8836	0.4867	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	1.27	0.6254	4	No 14	0.9479	0.4552	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-5	0.9221	0.2741	4	No 13	0.63	0.4591	7.692	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-8	0.4944	0.1003	4	No 13	0.3211	0.2329	15.38	Cohen's	No	0.01	Param.
Fluoride (mg/L)	DGWC-9	1.317	0.9573	4	No 14	1.137	0.254	0	None	No	0.01	Param.
Lead (mg/L)	DGWC-10	0.005	0.00011	0.015	No 12	0.002974	0.002504	58.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-11	0.005	0.000076	0.015	No 12	0.002958	0.002523	58.33	None	No	0.01	NP (normality)

Federal Confidence Interval Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 3:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	DGWC-12	0.005	0.00011	0.015	No 14	0.004301	0.001778	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.005	0.0002	0.015	No 12	0.004191	0.001888	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.005	0.000096	0.015	No 13	0.004242	0.001851	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.005	0.000082	0.015	No 13	0.002826	0.002461	53.85	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-17	0.005	0.000079	0.015	No 13	0.002742	0.002539	53.85	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-19	0.005	0.00007	0.015	No 13	0.003503	0.002337	69.23	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-2	0.005	0.000064	0.015	No 13	0.002353	0.00255	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.005	0.00013	0.015	No 13	0.003192	0.002385	61.54	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-21	0.005	0.0001	0.015	No 13	0.002405	0.002502	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-23	0.005	0.000066	0.015	No 13	0.00462	0.001368	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.005	0.0001	0.015	No 12	0.003779	0.002209	75	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-42	0.0016	0.0002	0.015	No 13	0.001152	0.00175	15.38	None	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	DGWC-47	0.005	0.0005	0.015	No 13	0.001732	0.001875	23.08	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0035	0.00092	0.015	No 13	0.002067	0.001499	15.38	None	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	DGWC-5	0.005	0.000051	0.015	No 12	0.001941	0.00235	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.005	0.0001	0.015	No 12	0.002626	0.002485	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.005	0.00017	0.015	No 13	0.004255	0.001818	84.62	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-10	0.015	0.002	0.04	No 12	0.005458	0.004637	16.67	None	No	0.01	NP (Cohens/xfrm)
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No 12	0.003333	0.003684	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.00097	0.04	No 14	0.01001	0.006944	64.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-13	0.015	0.0028	0.04	No 12	0.005117	0.004624	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.008	0.0032	0.04	No 13	0.0048	0.003316	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0059	0.04	No 12	0.006392	0.0008229	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No 13	0.009647	0.007049	61.54	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-19	0.015	0.0031	0.04	No 13	0.004108	0.00328	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.07156	0.02739	0.04	No 13	0.05299	0.03076	7.692	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-20	0.015	0.0019	0.04	No 13	0.006369	0.005794	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.04	No 13	0.006692	0.002518	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0047	0.0036	0.04	No 13	0.004992	0.003032	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.0162	0.0036	0.04	No 13	0.01175	0.01975	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-4	0.0035	0.0024	0.04	No 12	0.003833	0.003537	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01247	0.01025	0.04	No 13	0.01136	0.001495	7.692	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.0771	0.06002	0.04	Yes 13	0.06856	0.01149	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.13	0.1093	0.04	Yes 13	0.1197	0.01391	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.008526	0.003793	0.04	No 12	0.006275	0.00332	8.333	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0075	0.0045	0.04	No 12	0.006375	0.002911	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02965	0.02256	0.04	No 13	0.02611	0.004768	7.692	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0005	0.00008	0.002	No 12	0.0003601	0.0002067	66.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-11	0.0005	0.00006	0.002	No 12	0.0003908	0.0001976	75	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-12	0.0005	0.00006	0.002	No 14	0.000319	0.000218	57.14	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-13	0.0005	0.00009	0.002	No 12	0.00043	0.0001635	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0005	0.00006	0.002	No 13	0.0003992	0.0001916	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0005	0.00006	0.002	No 13	0.0004662	0.000122	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0005	0.00006	0.002	No 13	0.0002785	0.0002154	46.15	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0005	0.00005	0.002	No 13	0.0003985	0.0001933	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.00008	0.002	No 13	0.0004133	0.0001952	69.23	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-20	0.0005	0.00008	0.002	No 13	0.0004354	0.0001577	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0005	0.00006	0.002	No 13	0.0003362	0.0002163	61.54	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-22	0.0005	0.000055	0.002	No 13	0.0004004	0.0001896	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0005	0.00014	0.002	No 13	0.0002723	0.0001623	30.77	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-4	0.00059	0.000082	0.002	No 12	0.0004377	0.0001686	75	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-42	0.0005	0.00004	0.002	No 13	0.0004646	0.0001276	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0005	0.00006	0.002	No 13	0.0004662	0.000122	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0005	0.00009	0.002	No 12	0.0002417	0.0001701	16.67	None	No	0.01	NP (Cohens/xfrm)
Mercury (mg/L)	DGWC-8	0.0005	0.00006	0.002	No 12	0.0002909	0.0002192	50	None	No	0.01	NP (normality)

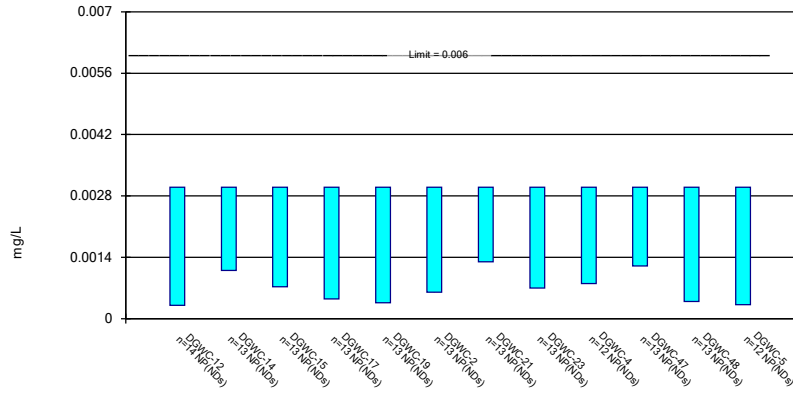
Federal Confidence Interval Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 3:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	DGWC-9	0.0005	0.00005	0.002	No 13	0.0003548	0.0001878	53.85	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02834	0.01374	0.1	No 12	0.02104	0.009302	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.005	0.0018	0.1	No 13	0.003231	0.001752	46.15	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01155	0.007262	0.1	No 13	0.009408	0.002886	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006873	0.004594	0.1	No 12	0.005733	0.001452	8.333	None	No	0.01	Param.
Selenium (mg/L)	DGWC-10	0.05502	0.01853	0.05	No 12	0.03678	0.02325	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.01	0.0017	0.05	No 14	0.005921	0.004238	50	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-13	0.01	0.0015	0.05	No 12	0.004858	0.003462	25	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	DGWC-14	0.01	0.0016	0.05	No 13	0.007438	0.004001	69.23	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No 13	0.009369	0.002274	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.01	0.0072	0.05	No 13	0.008846	0.002183	15.38	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-19	0.009886	0.005688	0.05	No 13	0.007538	0.002479	15.38	Cohen's	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.01	0.0046	0.05	No 13	0.007777	0.002565	53.85	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06857	0.03146	0.05	No 13	0.05002	0.02496	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.01	0.0017	0.05	No 13	0.009362	0.002302	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.01	0.0014	0.05	No 12	0.009283	0.002483	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01444	0.006265	0.05	No 13	0.01035	0.005499	15.38	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.009889	0.004257	0.05	No 13	0.006738	0.003327	15.38	Cohen's	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.05512	0.01002	0.05	No 12	0.03657	0.0445	8.333	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.01	0.0018	0.05	No 12	0.006183	0.003635	41.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-9	0.1415	0.05002	0.05	Yes 13	0.09574	0.06149	0	None	No	0.01	Param.
Thallium (mg/L)	DGWC-10	0.001	0.00036	0.002	No 12	0.000515	0.000237	16.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000089	0.002	No 14	0.0005476	0.0004696	50	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-17	0.001	0.00015	0.002	No 13	0.0003692	0.0003601	23.08	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.0006	0.00049	0.002	No 13	0.0005415	0.0001493	7.692	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.0016	0.00055	0.002	No 13	0.0009392	0.0005086	30.77	None	No	0.01	NP (Cohens/xfrm)
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No 13	0.0006411	0.0004726	61.54	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No 12	0.0009228	0.0002676	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No 13	0.0007184	0.0004397	69.23	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No 13	0.00036	0.0002876	15.38	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.000078	0.002	No 13	0.0006466	0.0004653	61.54	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-5	0.001	0.000078	0.002	No 12	0.0007783	0.0004023	75	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-8	0.001	0.0002	0.002	No 12	0.0004217	0.0003532	25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.0009925	0.0005252	0.002	No 13	0.0007031	0.0002337	30.77	Cohen's	No	0.01	Param.

Non-Parametric Confidence Interval

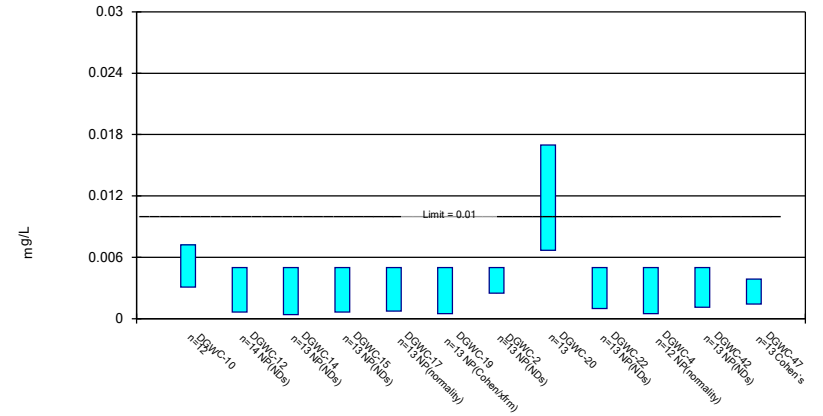
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

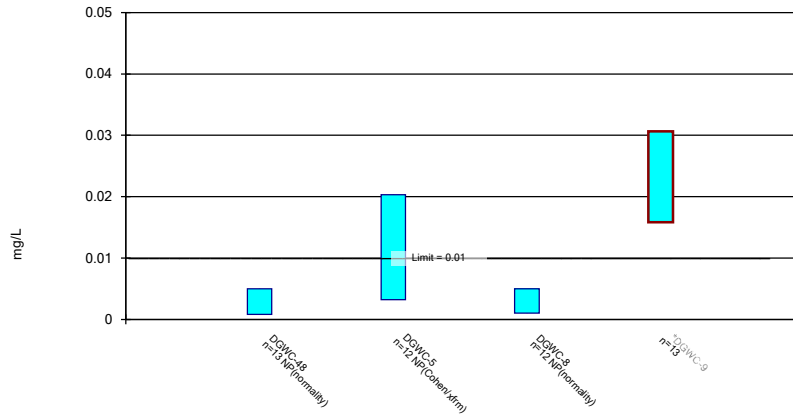
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

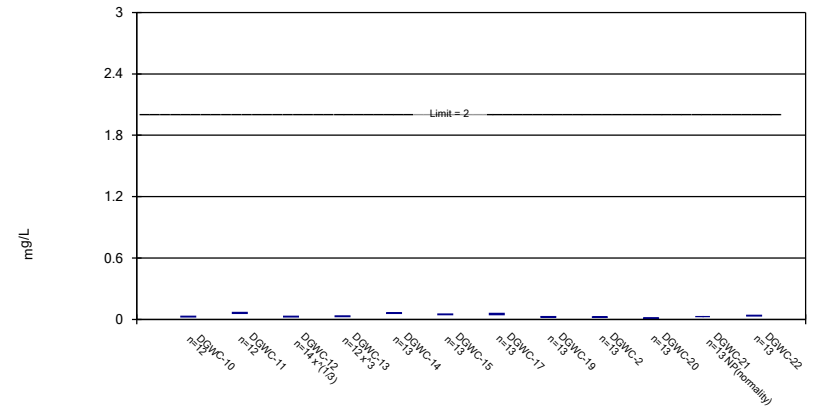
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

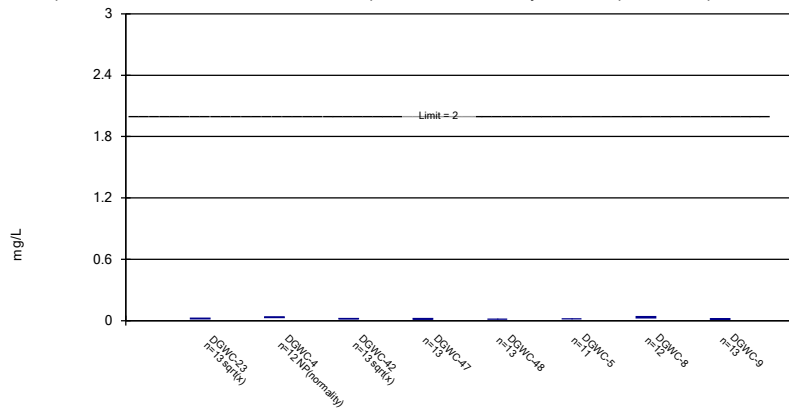
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

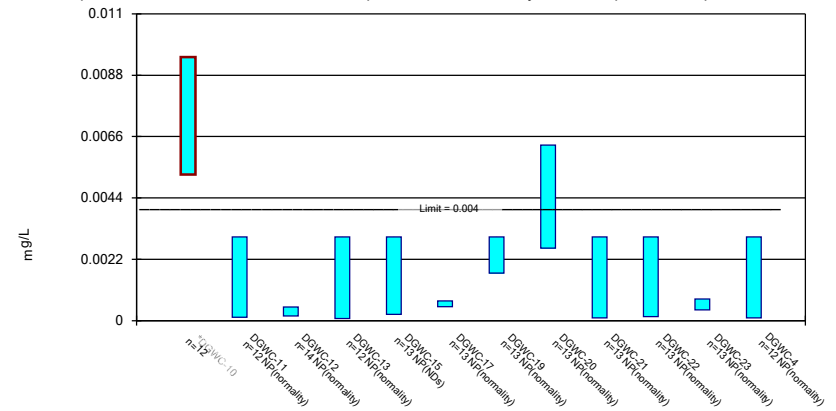
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

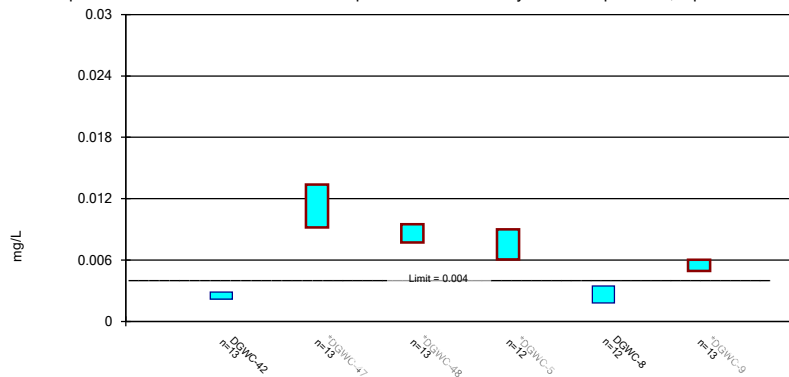
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

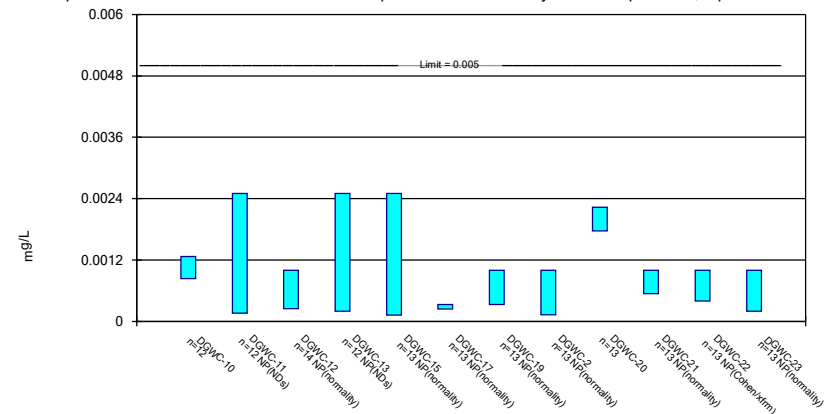
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

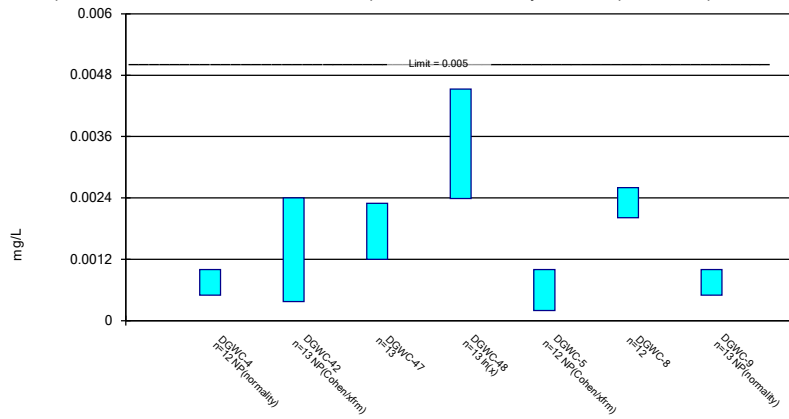
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

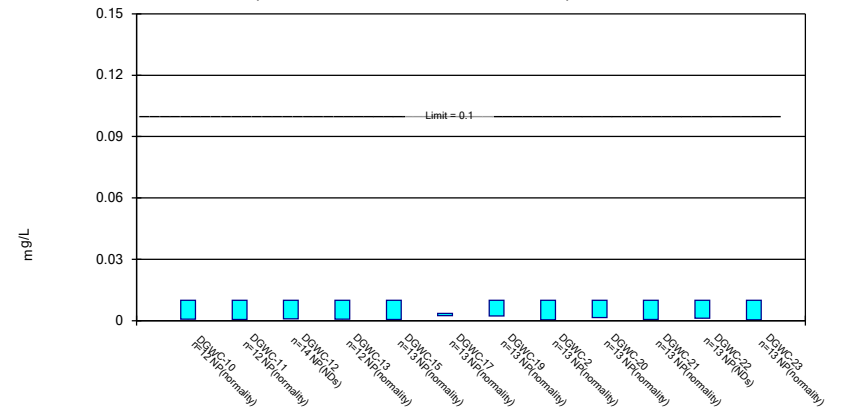
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

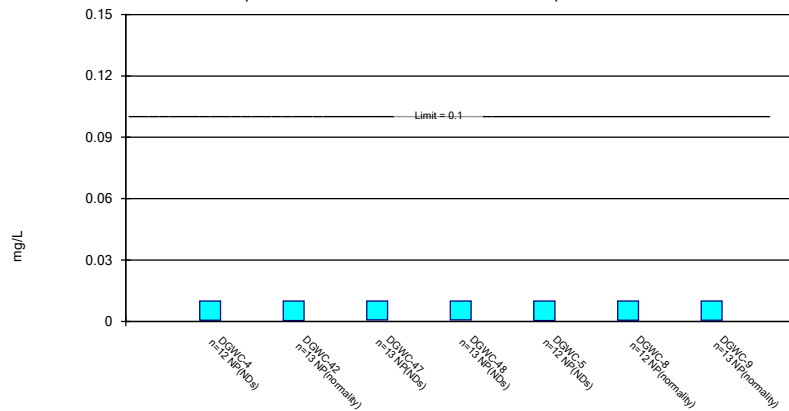
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

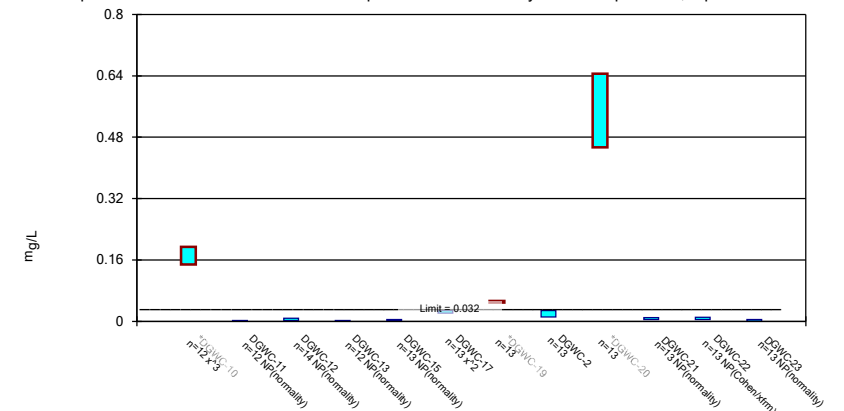
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

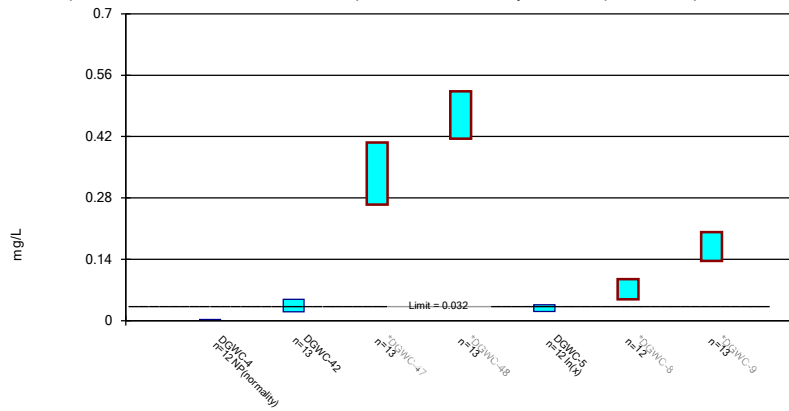
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

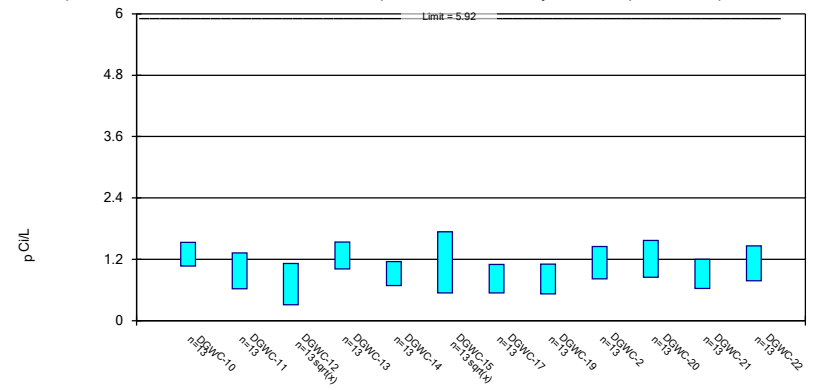
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

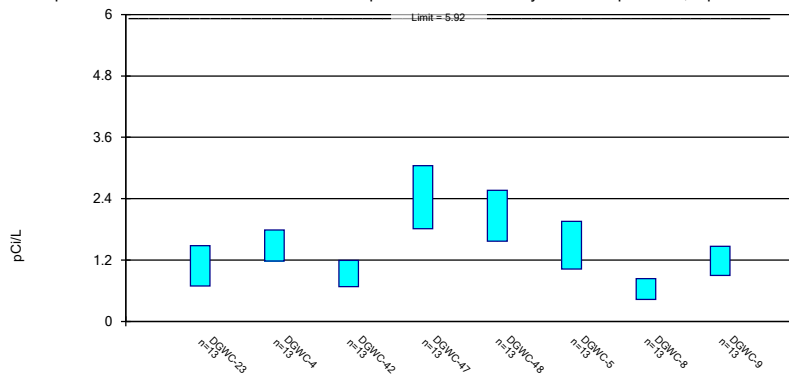
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

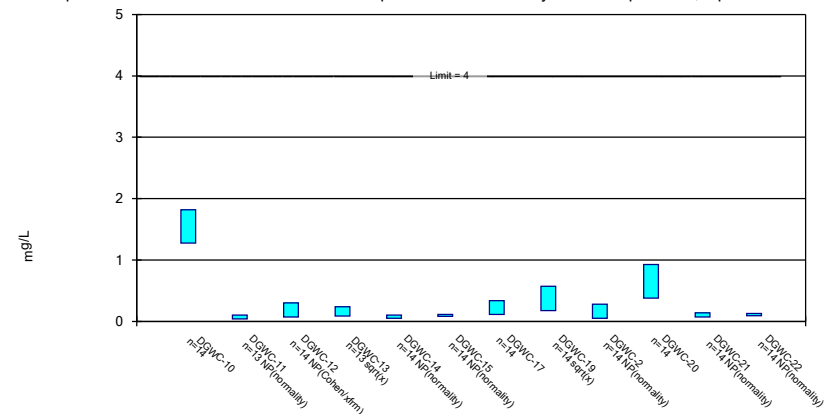
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

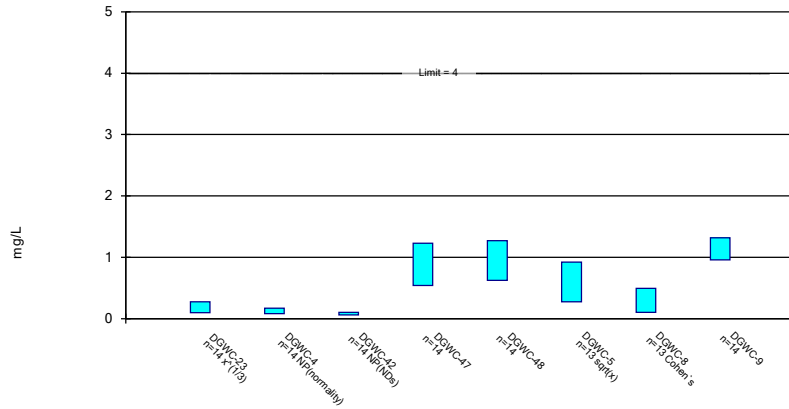
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

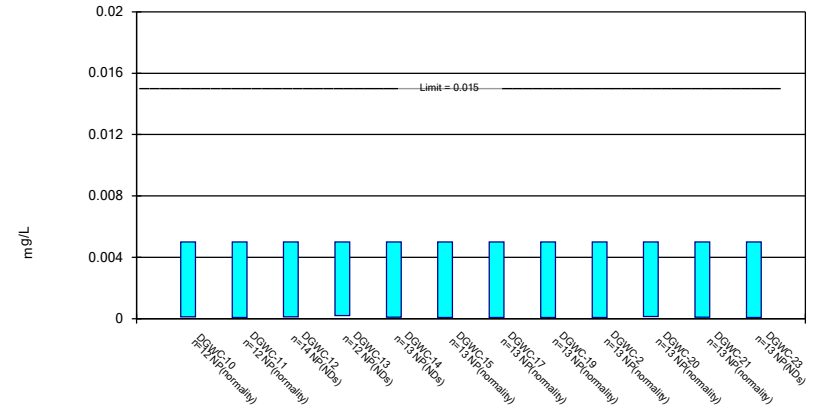
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

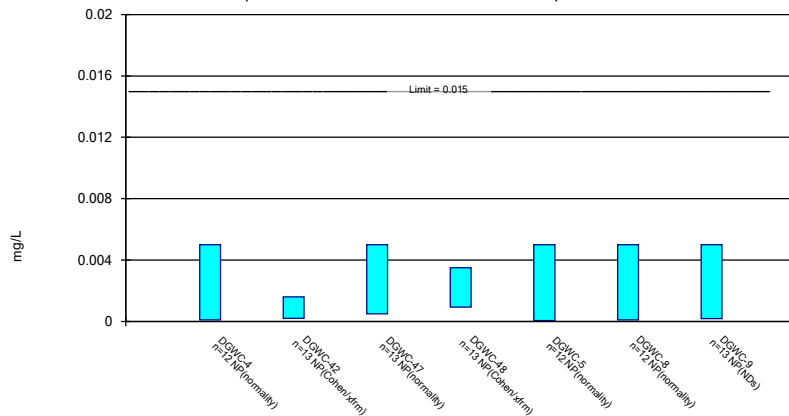
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

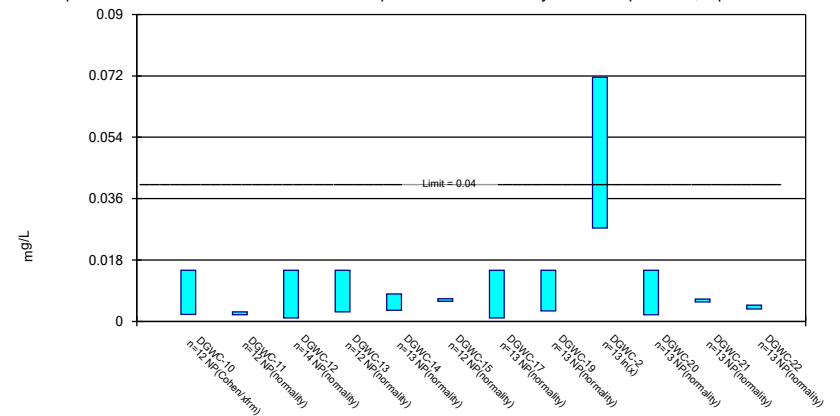
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

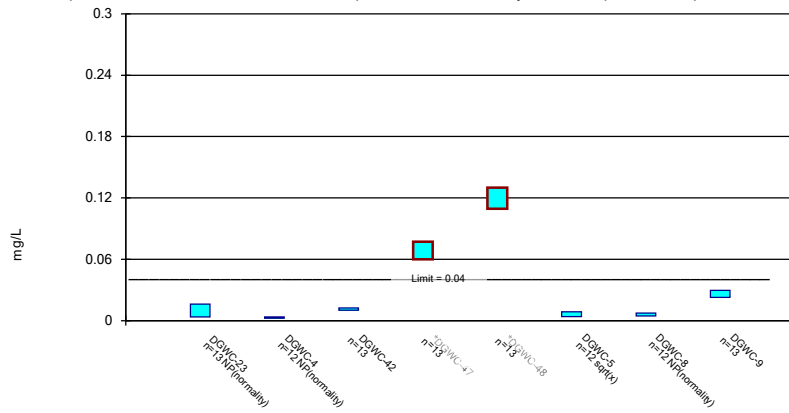
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

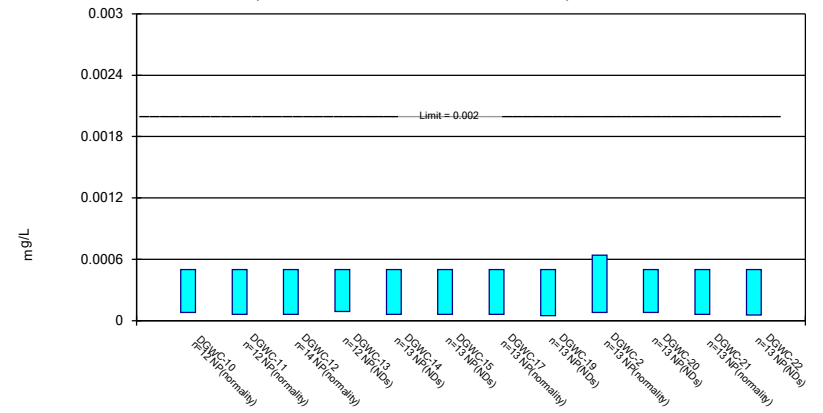
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

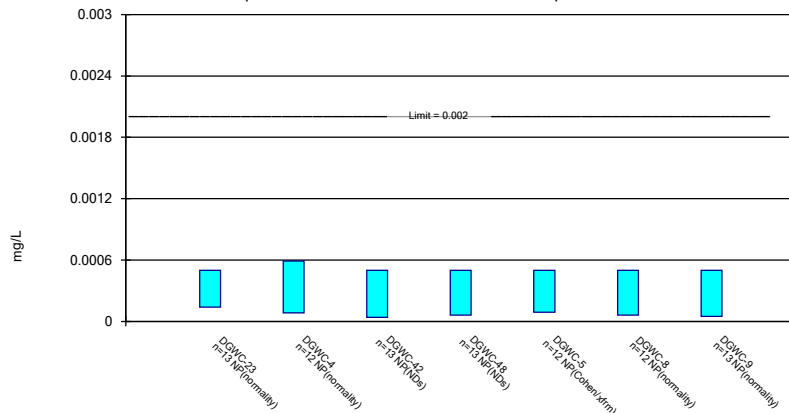
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

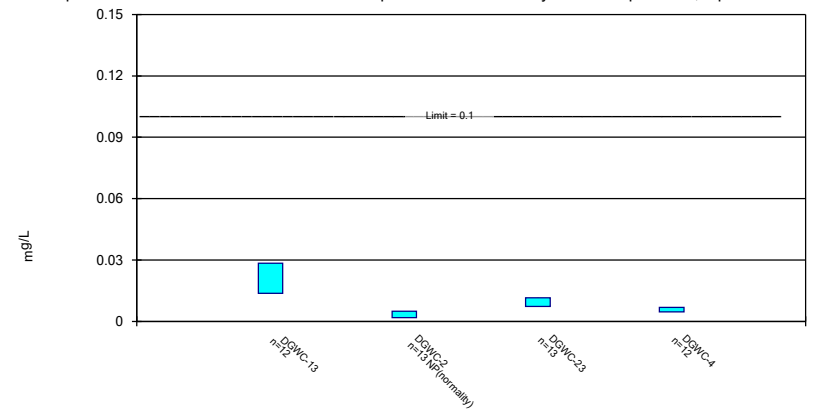
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

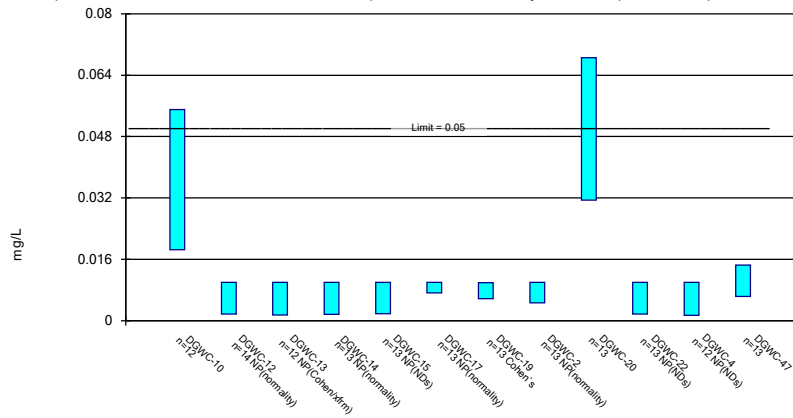
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

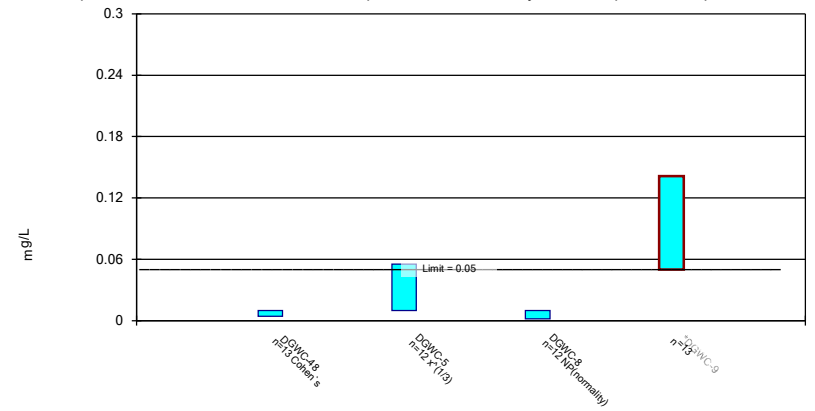
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/29/2020 3:03 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

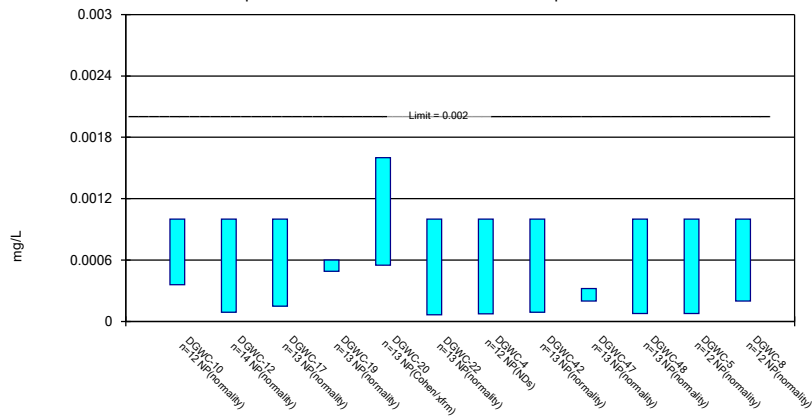
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/29/2020 3:04 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

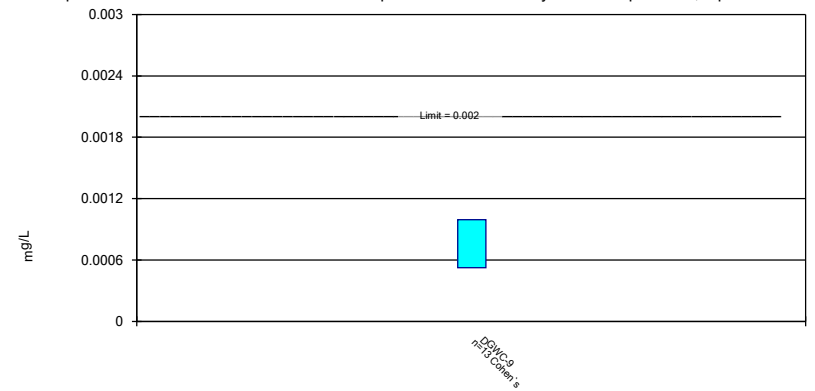
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 10/29/2020 3:04 PM View: Confidence Intervals AP-2,3,4
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: Thallium Analysis Run 10/29/2020 3:04 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE I.

State Confidence Interval Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03066	0.01584	0.01	Yes 13	0.02325	0.009966	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009456	0.005244	0.004	Yes 12	0.00735	0.002684	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01338	0.009172	0.004	Yes 13	0.01128	0.002831	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009497	0.007719	0.004	Yes 13	0.008608	0.001195	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.009007	0.00606	0.004	Yes 12	0.007533	0.001878	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.006036	0.004933	0.004	Yes 13	0.005485	0.0007414	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.194	0.1479	0.032	Yes 12	0.1671	0.03784	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05328	0.04876	0.032	Yes 13	0.05102	0.003039	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6453	0.4536	0.032	Yes 13	0.5495	0.1289	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.4062	0.2647	0.032	Yes 13	0.3355	0.09515	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5235	0.415	0.032	Yes 13	0.4692	0.07295	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09482	0.04891	0.032	Yes 12	0.07187	0.02925	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2018	0.136	0.032	Yes 13	0.1689	0.04419	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.0771	0.06002	0.03	Yes 13	0.06856	0.01149	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.13	0.1093	0.03	Yes 13	0.1197	0.01391	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1415	0.05002	0.05	Yes 13	0.09574	0.06149	0	None	No	0.01	Param.

State Confidence Interval Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No 14	0.002807	0.0007216	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No 13	0.002854	0.000527	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No 13	0.00262	0.0009312	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No 13	0.002804	0.0007072	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No 13	0.002797	0.0007322	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No 13	0.002815	0.0006656	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No 13	0.002869	0.0004715	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No 13	0.002823	0.0006379	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No 12	0.002615	0.0009004	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No 13	0.002862	0.0004992	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.00039	0.006	No 13	0.002799	0.0007239	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.00032	0.006	No 12	0.002777	0.0007736	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.00722	0.00308	0.01	No 12	0.00515	0.002638	8.333	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No 14	0.004374	0.001592	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No 13	0.004645	0.001279	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.00064	0.01	No 13	0.004042	0.001828	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.00073	0.01	No 13	0.003148	0.00209	53.85	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-19	0.005	0.00049	0.01	No 13	0.002365	0.001645	23.08	None	No	0.01	NP (Cohens/xfrm)
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No 13	0.004499	0.001261	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01699	0.006683	0.01	No 13	0.01184	0.006934	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No 13	0.004692	0.001109	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0005	0.01	No 12	0.0039	0.001991	75	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No 13	0.004369	0.001542	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.003855	0.001418	0.01	No 13	0.002523	0.001439	15.38	Cohen's	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.00079	0.01	No 13	0.00293	0.002018	46.15	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-5	0.0203	0.0032	0.01	No 12	0.009483	0.01044	16.67	None	No	0.01	NP (Cohens/xfrm)
Arsenic (mg/L)	DGWC-8	0.005	0.001	0.01	No 12	0.003472	0.001906	58.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-9	0.03066	0.01584	0.01	Yes 13	0.02325	0.009966	7.692	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.03055	0.02357	2	No 12	0.02706	0.004448	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06805	0.05751	2	No 12	0.06278	0.006717	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03036	0.02319	2	No 14	0.02691	0.005363	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03355	0.02707	2	No 12	0.02917	0.007981	8.333	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06272	0.05738	2	No 13	0.06005	0.003589	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05171	0.04502	2	No 13	0.04836	0.0045	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05844	0.04436	2	No 13	0.0514	0.009465	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02536	0.02124	2	No 13	0.0233	0.002771	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02269	0.02115	2	No 13	0.02192	0.001038	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01488	0.008707	2	No 13	0.01179	0.004149	7.692	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.0252	2	No 13	0.02634	0.001198	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03853	0.03293	2	No 13	0.03573	0.003765	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02432	0.01814	2	No 13	0.02131	0.004373	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.0363	0.03	2	No 12	0.03397	0.002586	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-42	0.02101	0.01682	2	No 13	0.01895	0.002948	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01952	0.01539	2	No 13	0.01745	0.00278	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0145	0.0129	2	No 13	0.0137	0.001075	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01858	0.01676	2	No 11	0.01767	0.001092	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03968	0.02782	2	No 12	0.03375	0.007562	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01485	2	No 13	0.01554	0.0009287	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009456	0.005244	0.004	Yes 12	0.00735	0.002684	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00012	0.004	No 12	0.001807	0.001475	58.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00017	0.004	No 14	0.0006153	0.001014	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No 12	0.002268	0.001324	75	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No 13	0.00256	0.001075	84.62	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00071	0.0005	0.004	No 13	0.0009623	0.0009065	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.003	0.0017	0.004	No 13	0.002077	0.0004304	15.38	None	No	0.01	NP (normality)

State Confidence Interval Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-20	0.0063	0.0026	0.004	No 13	0.003808	0.001906	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-21	0.003	0.0001	0.004	No 13	0.0005969	0.001067	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.003	0.00014	0.004	No 13	0.0006054	0.001063	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.00077	0.00038	0.004	No 13	0.0008285	0.0009694	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.003	0.0001	0.004	No 12	0.0006617	0.001093	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002873	0.002173	0.004	No 13	0.002523	0.0004711	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01338	0.009172	0.004	Yes 13	0.01128	0.002831	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009497	0.007719	0.004	Yes 13	0.008608	0.001195	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.009007	0.00606	0.004	Yes 12	0.007533	0.001878	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003446	0.001804	0.004	No 12	0.002625	0.001046	8.333	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.006036	0.004933	0.004	Yes 13	0.005485	0.0007414	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001267	0.0008381	0.005	No 12	0.001053	0.0002733	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0025	0.00016	0.005	No 12	0.002107	0.0009187	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.001	0.00025	0.005	No 14	0.0006893	0.00079	21.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-13	0.0025	0.0002	0.005	No 12	0.002107	0.000919	83.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.0025	0.00012	0.005	No 13	0.001648	0.001145	69.23	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-17	0.00033	0.00024	0.005	No 13	0.0006169	0.0008366	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.001	0.00033	0.005	No 13	0.0005838	0.0006022	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.001	0.00013	0.005	No 13	0.0006538	0.0008526	23.08	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002229	0.001771	0.005	No 13	0.002	0.0003082	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.001	0.00054	0.005	No 13	0.0008085	0.0005286	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-22	0.001	0.0004	0.005	No 13	0.0007354	0.0005646	15.38	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-23	0.001	0.0002	0.005	No 13	0.00047	0.0006466	15.38	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.001	0.0005	0.005	No 12	0.00086	0.0005345	16.67	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-42	0.0024	0.00037	0.005	No 13	0.001042	0.0007112	15.38	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-47	0.002295	0.001198	0.005	No 13	0.001746	0.0007378	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.004529	0.002389	0.005	No 13	0.0036	0.001801	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.001	0.0002	0.005	No 12	0.0007592	0.000611	16.67	None	No	0.01	NP (Cohens/xfrm)
Cadmium (mg/L)	DGWC-8	0.002601	0.002016	0.005	No 12	0.002308	0.0003728	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.001	0.0005	0.005	No 13	0.0007531	0.0005442	15.38	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-10	0.01	0.0007	0.1	No 12	0.003883	0.004519	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.01	0.0006	0.1	No 12	0.006866	0.004629	66.67	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-12	0.01	0.00094	0.1	No 14	0.009353	0.002421	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.01	0.00066	0.1	No 12	0.006907	0.004568	66.67	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-15	0.01	0.0005	0.1	No 13	0.007411	0.004182	69.23	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No 13	0.003862	0.00275	15.38	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.01	0.0023	0.1	No 13	0.0043	0.003261	23.08	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.01	0.00046	0.1	No 13	0.006348	0.004808	61.54	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-20	0.01	0.0015	0.1	No 13	0.004985	0.004154	38.46	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.01	0.00048	0.1	No 13	0.006381	0.004767	61.54	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-22	0.01	0.0012	0.1	No 13	0.009323	0.002441	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.01	0.00041	0.1	No 13	0.00357	0.004467	30.77	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.01	0.0005	0.1	No 12	0.009208	0.002742	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.01	0.00042	0.1	No 13	0.005095	0.004745	46.15	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-47	0.01	0.0007	0.1	No 13	0.009285	0.002579	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.01	0.0007	0.1	No 13	0.008546	0.003549	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.01	0.00045	0.1	No 12	0.009204	0.002757	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.01	0.00061	0.1	No 12	0.006331	0.004571	58.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-9	0.01	0.00051	0.1	No 13	0.006792	0.004421	61.54	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-10	0.194	0.1479	0.032	Yes 12	0.1671	0.03784	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No 12	0.001606	0.0009402	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.0079	0.0021	0.032	No 14	0.006143	0.007268	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0004	0.032	No 12	0.001982	0.0009381	75	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-15	0.0042	0.0018	0.032	No 13	0.003992	0.00635	7.692	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02807	0.02097	0.032	No 13	0.02399	0.006439	7.692	None	x^2	0.01	Param.

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Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	DGWC-19	0.05328	0.04876	0.032	Yes 13	0.05102	0.003039	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.02786	0.01119	0.032	No 13	0.01952	0.01121	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6453	0.4536	0.032	Yes 13	0.5495	0.1289	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.01	0.005	0.032	No 13	0.008538	0.002294	15.38	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-22	0.0106	0.005	0.032	No 13	0.008662	0.002396	15.38	None	No	0.01	NP (Cohens/xfm)
Cobalt (mg/L)	DGWC-23	0.005	0.00036	0.032	No 13	0.002044	0.001333	69.23	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.0025	0.0014	0.032	No 12	0.002033	0.000982	16.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04874	0.01994	0.032	No 13	0.03434	0.01937	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.4062	0.2647	0.032	Yes 13	0.3355	0.09515	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5235	0.415	0.032	Yes 13	0.4692	0.07295	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.03614	0.02048	0.032	No 12	0.02902	0.01169	0	None	In(x)	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09482	0.04891	0.032	Yes 12	0.07187	0.02925	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2018	0.136	0.032	Yes 13	0.1689	0.04419	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.533	1.067	5.92	No 13	1.3	0.3132	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.324	0.6257	5.92	No 13	0.975	0.4697	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.119	0.3122	5.92	No 13	0.7574	0.6581	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.536	1.01	5.92	No 13	1.273	0.354	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.156	0.6832	5.92	No 13	0.9195	0.3179	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.736	0.5423	5.92	No 13	1.196	0.9184	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.101	0.5388	5.92	No 13	0.8199	0.3781	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.108	0.5209	5.92	No 13	0.8143	0.3946	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.451	0.8198	5.92	No 13	1.135	0.4243	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.567	0.8478	5.92	No 13	1.207	0.4835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.2	0.6287	5.92	No 13	0.9143	0.3841	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.462	0.779	5.92	No 13	1.121	0.4594	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.482	0.6925	5.92	No 13	1.087	0.5307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.788	1.182	5.92	No 13	1.485	0.4079	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.192	0.6811	5.92	No 13	0.9368	0.3438	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	3.046	1.811	5.92	No 13	2.428	0.8307	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.561	1.567	5.92	No 13	2.064	0.6687	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.955	1.022	5.92	No 13	1.489	0.6279	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.8387	0.4284	5.92	No 13	0.6335	0.2759	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.469	0.8959	5.92	No 13	1.182	0.3851	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.819	1.276	4	No 14	1.548	0.3832	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.04	4	No 13	0.07738	0.02685	53.85	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-12	0.3	0.071	4	No 14	0.1683	0.153	42.86	None	No	0.01	NP (Cohens/xfm)
Fluoride (mg/L)	DGWC-13	0.2371	0.08721	4	No 13	0.1683	0.1136	7.692	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.052	4	No 14	0.08386	0.02776	64.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-15	0.11	0.079	4	No 14	0.1061	0.04679	57.14	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-17	0.3341	0.1109	4	No 14	0.2225	0.1575	14.29	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-19	0.5725	0.1743	4	No 14	0.3979	0.327	7.143	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.28	0.052	4	No 14	0.1524	0.1678	35.71	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	0.9283	0.3788	4	No 14	0.6536	0.3879	7.143	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.14	0.07	4	No 14	0.108	0.07152	57.14	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-22	0.13	0.09	4	No 14	0.1211	0.06974	42.86	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-23	0.2749	0.09828	4	No 14	0.2011	0.1607	7.143	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.082	4	No 14	0.1416	0.1901	64.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No 14	0.09143	0.02316	85.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	1.228	0.5388	4	No 14	0.8836	0.4867	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	1.27	0.6254	4	No 14	0.9479	0.4552	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-5	0.9221	0.2741	4	No 13	0.63	0.4591	7.692	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-8	0.4944	0.1003	4	No 13	0.3211	0.2329	15.38	Cohen's	No	0.01	Param.
Fluoride (mg/L)	DGWC-9	1.317	0.9573	4	No 14	1.137	0.254	0	None	No	0.01	Param.
Lead (mg/L)	DGWC-10	0.005	0.00011	0.005	No 12	0.002974	0.002504	58.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-11	0.005	0.000076	0.005	No 12	0.002958	0.002523	58.33	None	No	0.01	NP (normality)

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	DGWC-12	0.005	0.00011	0.005	No 14	0.004301	0.001778	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.005	0.0002	0.005	No 12	0.004191	0.001888	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.005	0.000096	0.005	No 13	0.004242	0.001851	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.005	0.000082	0.005	No 13	0.002826	0.002461	53.85	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-17	0.005	0.000079	0.005	No 13	0.002742	0.002539	53.85	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-19	0.005	0.00007	0.005	No 13	0.003503	0.002337	69.23	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-2	0.005	0.000064	0.005	No 13	0.002353	0.00255	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.005	0.00013	0.005	No 13	0.003192	0.002385	61.54	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-21	0.005	0.0001	0.005	No 13	0.002405	0.002502	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-23	0.005	0.000066	0.005	No 13	0.00462	0.001368	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.005	0.0001	0.005	No 12	0.003779	0.002209	75	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-42	0.0016	0.0002	0.005	No 13	0.001152	0.00175	15.38	None	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	DGWC-47	0.005	0.0005	0.005	No 13	0.001732	0.001875	23.08	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0035	0.00092	0.005	No 13	0.002067	0.001499	15.38	None	No	0.01	NP (Cohens/xfrm)
Lead (mg/L)	DGWC-5	0.005	0.000051	0.005	No 12	0.001941	0.00235	33.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.005	0.0001	0.005	No 12	0.002626	0.002485	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.005	0.00017	0.005	No 13	0.004255	0.001818	84.62	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-10	0.015	0.002	0.03	No 12	0.005458	0.004637	16.67	None	No	0.01	NP (Cohens/xfrm)
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.03	No 12	0.003333	0.003684	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.00097	0.03	No 14	0.01001	0.006944	64.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-13	0.015	0.0028	0.03	No 12	0.005117	0.004624	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.008	0.0032	0.03	No 13	0.0048	0.003316	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0059	0.03	No 12	0.006392	0.0008229	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.03	No 13	0.009647	0.007049	61.54	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-19	0.015	0.0031	0.03	No 13	0.004108	0.00328	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.07156	0.02739	0.03	No 13	0.05299	0.03076	7.692	None	In(x)	0.01	Param.
Lithium (mg/L)	DGWC-20	0.015	0.0019	0.03	No 13	0.006369	0.005794	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.03	No 13	0.006692	0.002518	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0047	0.0036	0.03	No 13	0.004992	0.003032	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.0162	0.0036	0.03	No 13	0.01175	0.01975	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-4	0.0035	0.0024	0.03	No 12	0.003833	0.003537	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01247	0.01025	0.03	No 13	0.01136	0.001495	7.692	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.0771	0.06002	0.03	Yes 13	0.06856	0.01149	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.13	0.1093	0.03	Yes 13	0.1197	0.01391	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.008526	0.003793	0.03	No 12	0.006275	0.00332	8.333	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0075	0.0045	0.03	No 12	0.006375	0.002911	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02965	0.02256	0.03	No 13	0.02611	0.004768	7.692	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0005	0.00008	0.002	No 12	0.0003601	0.0002067	66.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-11	0.0005	0.00006	0.002	No 12	0.0003908	0.0001976	75	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-12	0.0005	0.00006	0.002	No 14	0.000319	0.000218	57.14	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-13	0.0005	0.00009	0.002	No 12	0.00043	0.0001635	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0005	0.00006	0.002	No 13	0.0003992	0.0001916	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0005	0.00006	0.002	No 13	0.0004662	0.000122	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0005	0.00006	0.002	No 13	0.0002785	0.0002154	46.15	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0005	0.00005	0.002	No 13	0.0003985	0.0001933	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.00008	0.002	No 13	0.0004133	0.0001952	69.23	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-20	0.0005	0.00008	0.002	No 13	0.0004354	0.0001577	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0005	0.00006	0.002	No 13	0.0003362	0.0002163	61.54	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-22	0.0005	0.000055	0.002	No 13	0.0004004	0.0001896	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0005	0.00014	0.002	No 13	0.0002723	0.0001623	30.77	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-4	0.00059	0.000082	0.002	No 12	0.0004377	0.0001686	75	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-42	0.0005	0.00004	0.002	No 13	0.0004646	0.0001276	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0005	0.00006	0.002	No 13	0.0004662	0.000122	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0005	0.00009	0.002	No 12	0.0002417	0.0001701	16.67	None	No	0.01	NP (Cohens/xfrm)
Mercury (mg/L)	DGWC-8	0.0005	0.00006	0.002	No 12	0.0002909	0.0002192	50	None	No	0.01	NP (normality)

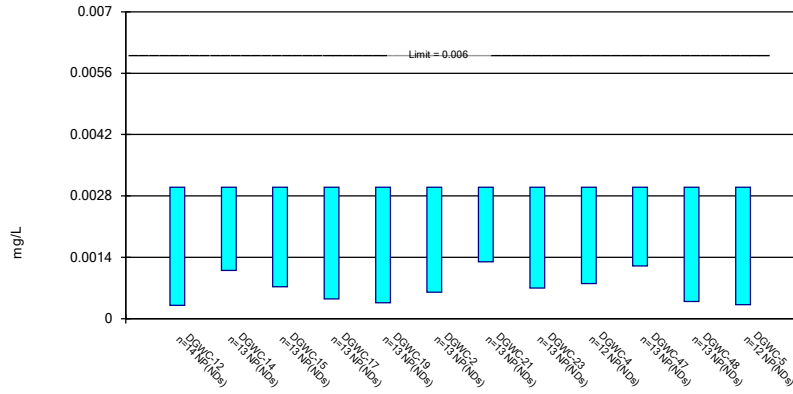
State Confidence Interval Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/29/2020, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	DGWC-9	0.0005	0.00005	0.002	No	13	0.0003548	0.0001878	53.85	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02834	0.01374	0.041	No	12	0.02104	0.009302	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.005	0.0018	0.041	No	13	0.003231	0.001752	46.15	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01155	0.007262	0.041	No	13	0.009408	0.002886	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006873	0.004594	0.041	No	12	0.005733	0.001452	8.333	None	No	0.01	Param.
Selenium (mg/L)	DGWC-10	0.05502	0.01853	0.05	No	12	0.03678	0.02325	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.01	0.0017	0.05	No	14	0.005921	0.004238	50	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-13	0.01	0.0015	0.05	No	12	0.004858	0.003462	25	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	DGWC-14	0.01	0.0016	0.05	No	13	0.007438	0.004001	69.23	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	13	0.009369	0.002274	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.01	0.0072	0.05	No	13	0.008846	0.002183	15.38	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-19	0.009886	0.005688	0.05	No	13	0.007538	0.002479	15.38	Cohen's	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.01	0.0046	0.05	No	13	0.007777	0.002565	53.85	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06857	0.03146	0.05	No	13	0.05002	0.02496	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.01	0.0017	0.05	No	13	0.009362	0.002302	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.01	0.0014	0.05	No	12	0.009283	0.002483	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01444	0.006265	0.05	No	13	0.01035	0.005499	15.38	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.009889	0.004257	0.05	No	13	0.006738	0.003327	15.38	Cohen's	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.05512	0.01002	0.05	No	12	0.03657	0.0445	8.333	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.01	0.0018	0.05	No	12	0.006183	0.003635	41.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-9	0.1415	0.05002	0.05	Yes	13	0.09574	0.06149	0	None	No	0.01	Param.
Thallium (mg/L)	DGWC-10	0.001	0.00036	0.002	No	12	0.000515	0.000237	16.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000089	0.002	No	14	0.0005476	0.0004696	50	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-17	0.001	0.00015	0.002	No	13	0.0003692	0.0003601	23.08	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.0006	0.00049	0.002	No	13	0.0005415	0.0001493	7.692	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.0016	0.00055	0.002	No	13	0.0009392	0.0005086	30.77	None	No	0.01	NP (Cohens/xfrm)
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	13	0.0006411	0.0004726	61.54	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	12	0.0009228	0.0002676	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	13	0.0007184	0.0004397	69.23	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	13	0.00036	0.0002876	15.38	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.000078	0.002	No	13	0.0006466	0.0004653	61.54	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-5	0.001	0.000078	0.002	No	12	0.0007783	0.0004023	75	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-8	0.001	0.0002	0.002	No	12	0.0004217	0.0003532	25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.0009925	0.0005252	0.002	No	13	0.0007031	0.0002337	30.77	Cohen's	No	0.01	Param.

Non-Parametric Confidence Interval

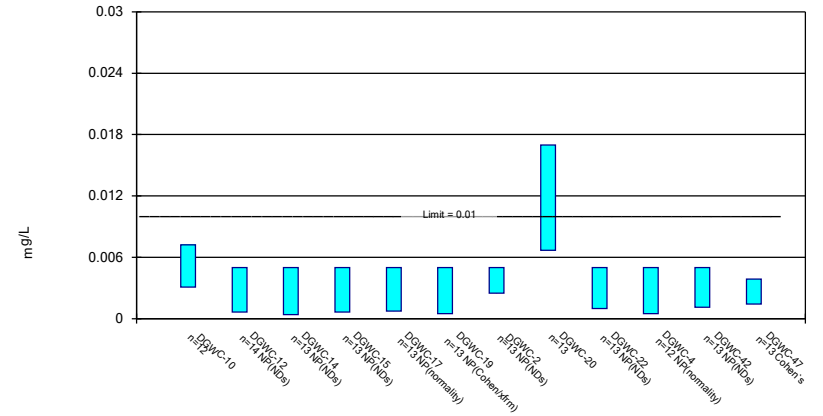
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

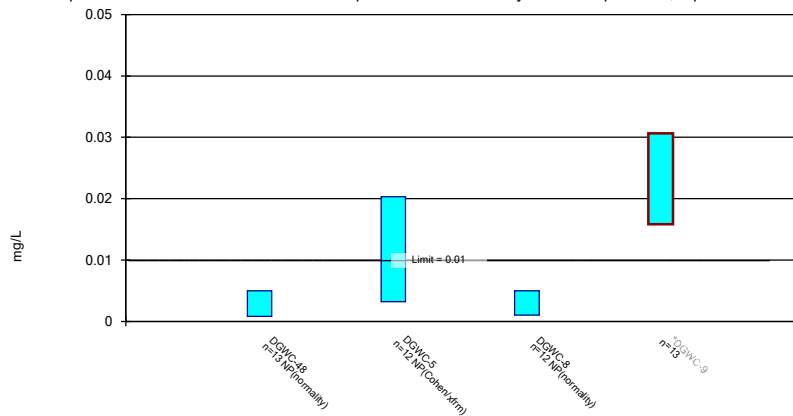
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

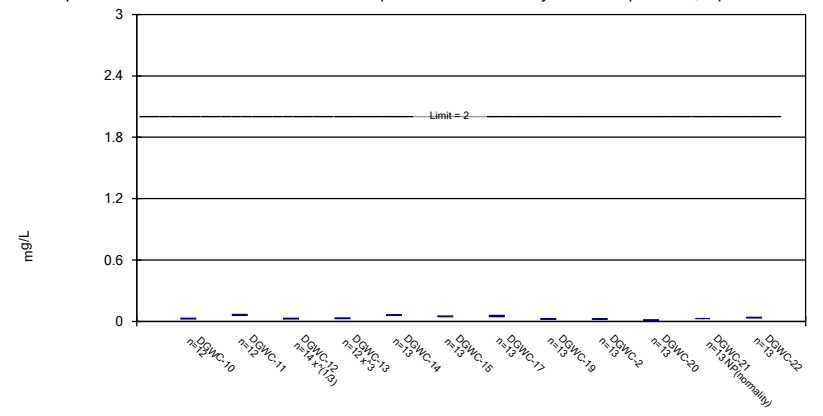
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

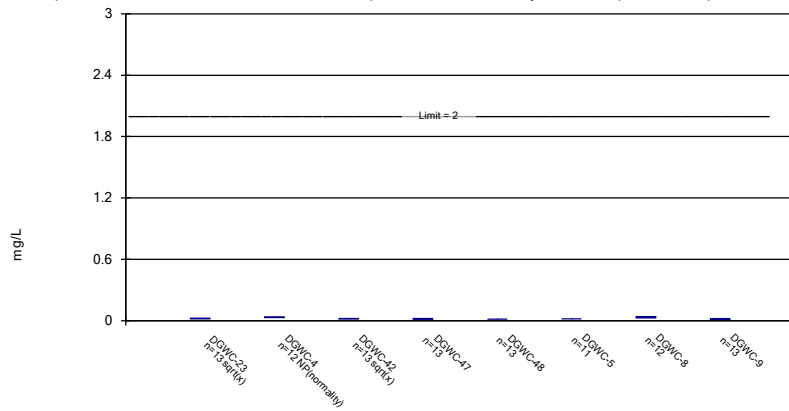
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Constituent: Barium Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

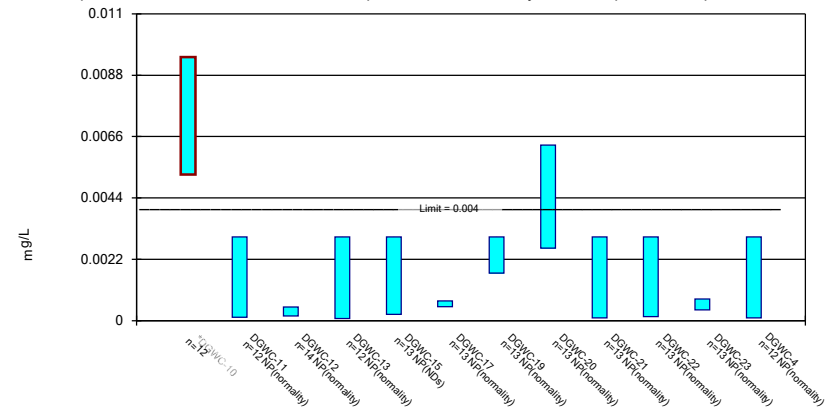
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Constituent: Barium Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

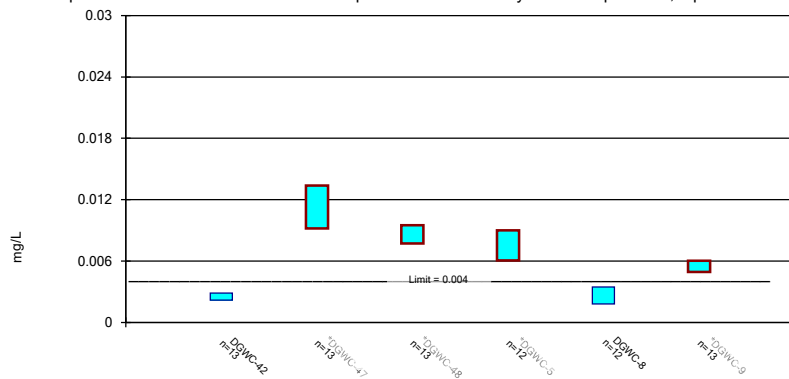
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Constituent: Beryllium Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

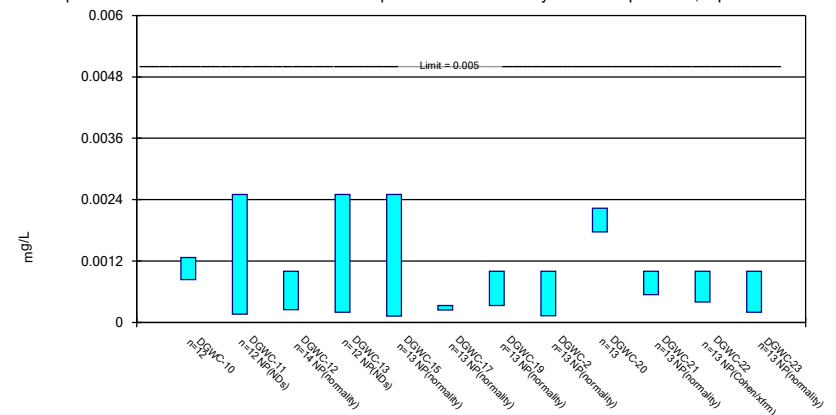
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

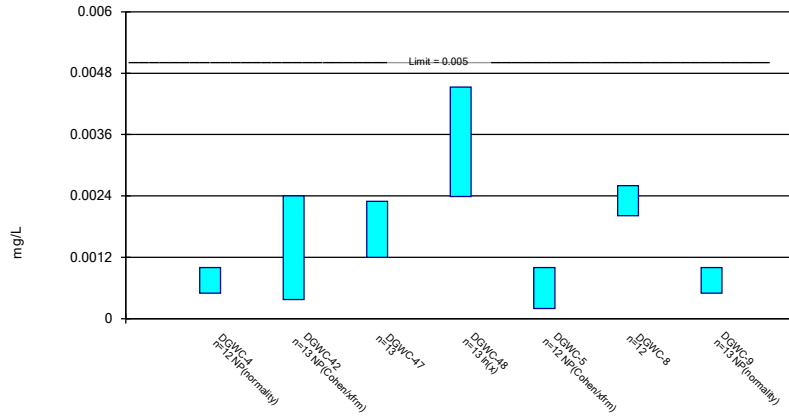
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Constituent: Cadmium Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

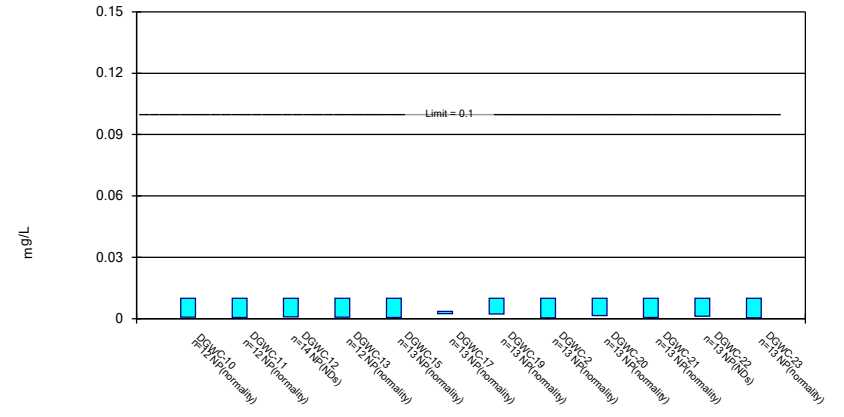
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Constituent: Cadmium Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

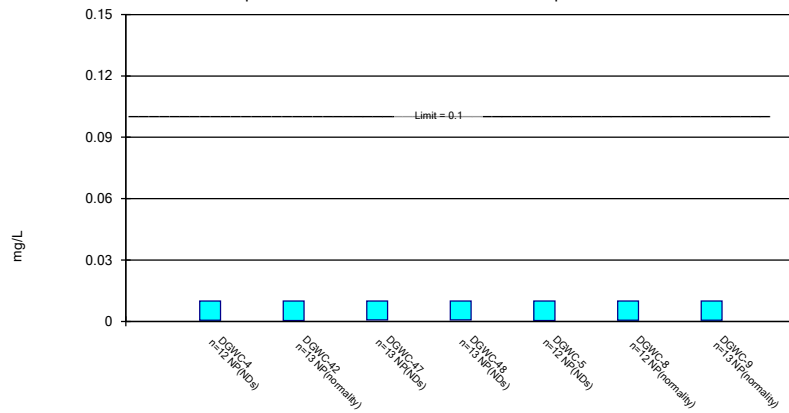
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Constituent: Chromium Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

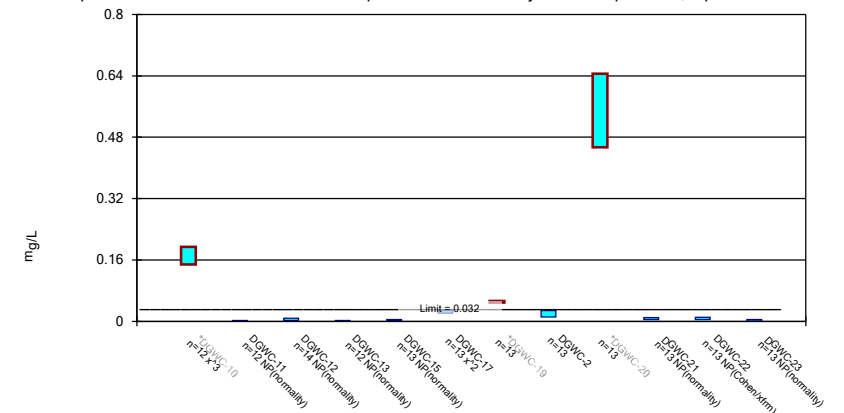
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Constituent: Chromium Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

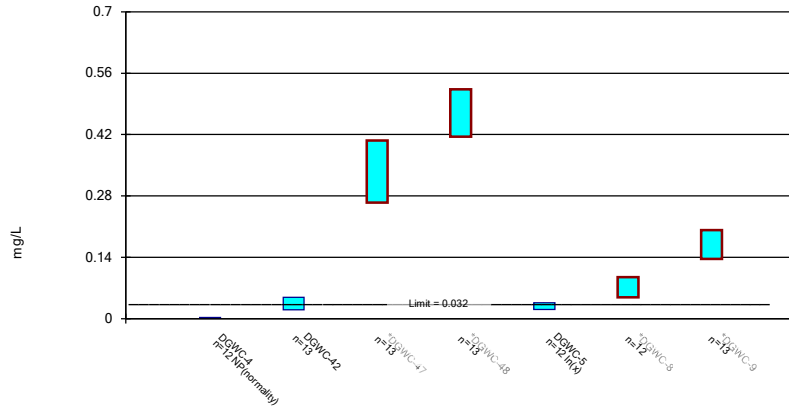
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Constituent: Cobalt Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

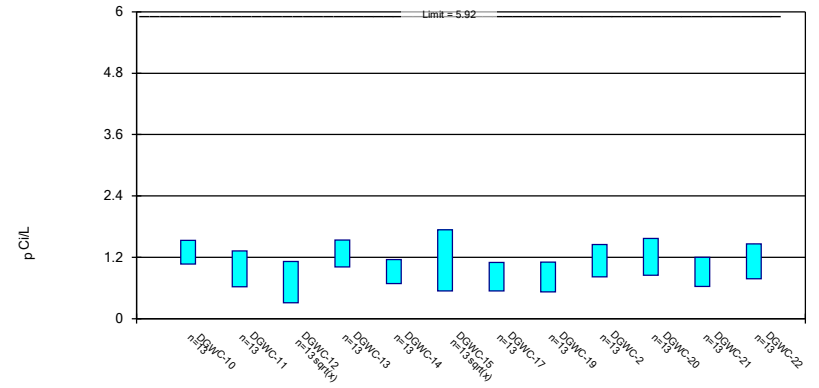
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

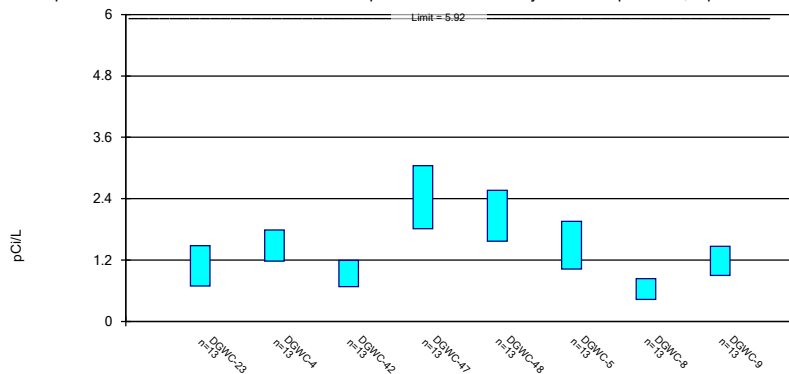
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Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

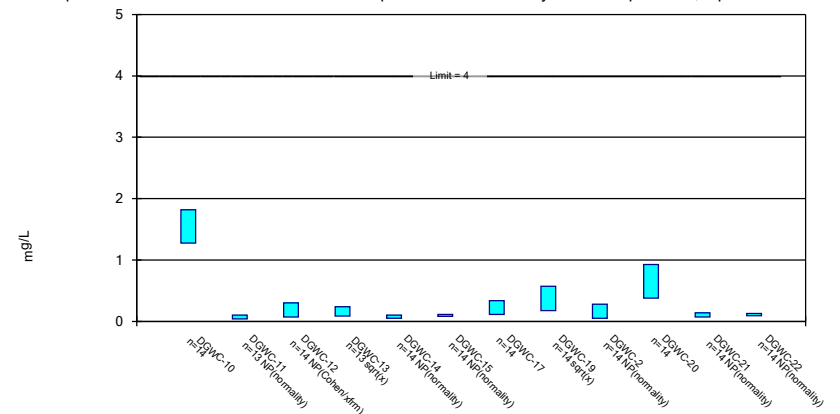
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Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

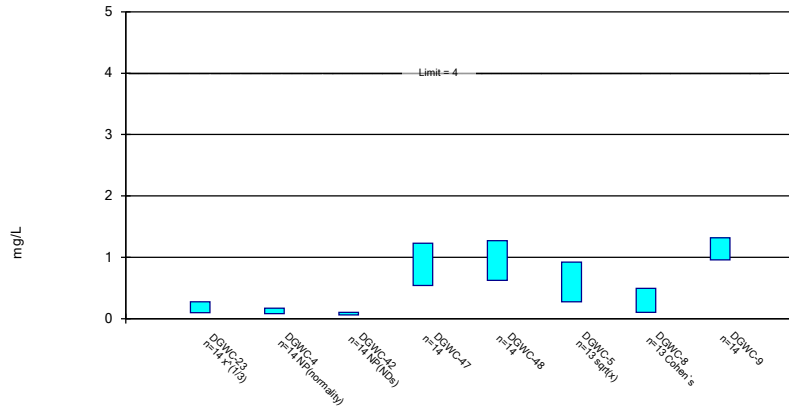
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Constituent: Fluoride Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

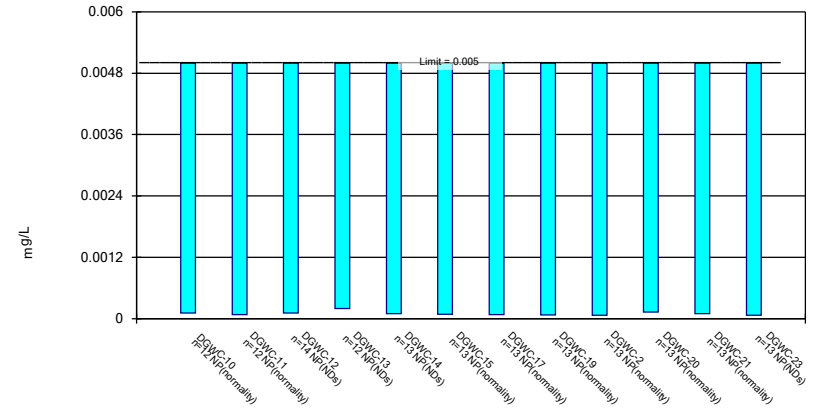
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Constituent: Fluoride Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

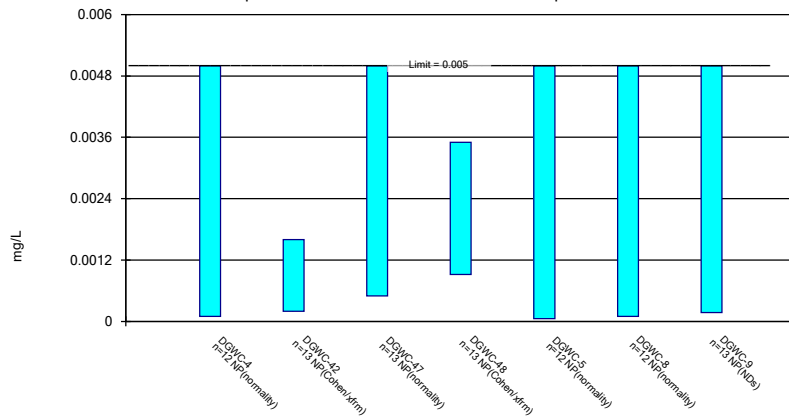
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Constituent: Lead Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

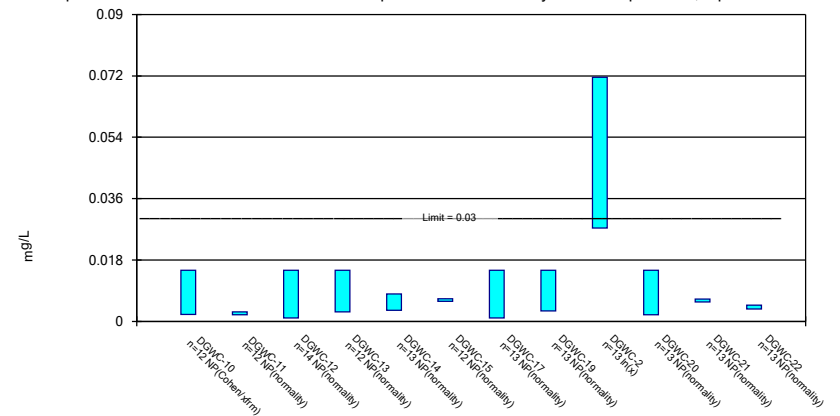
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Constituent: Lead Analysis Run 10/29/2020 2:26 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

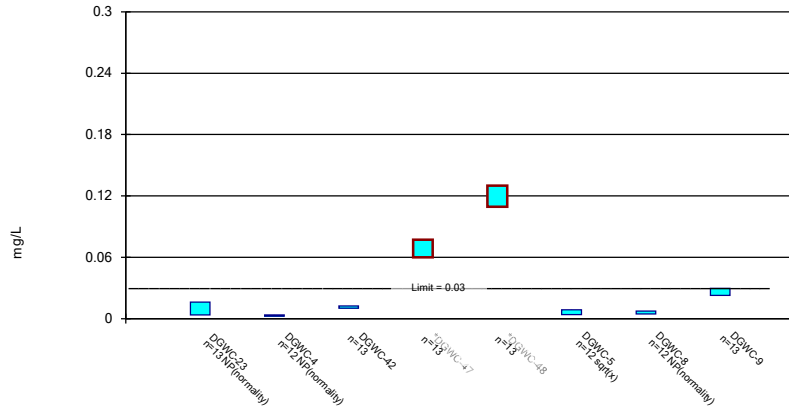
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/29/2020 2:27 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

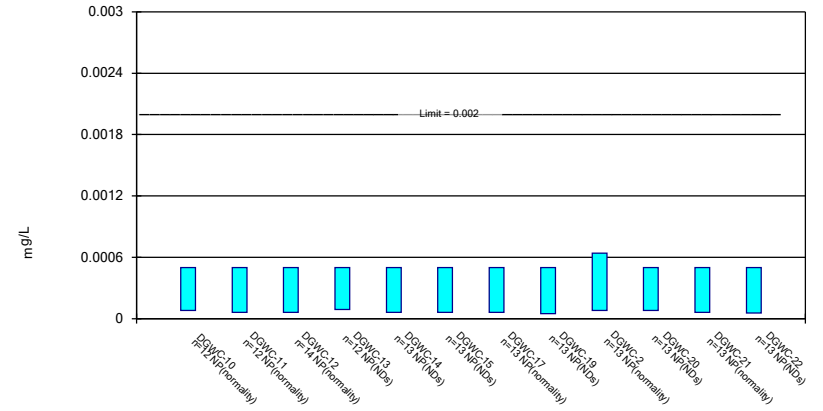
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/29/2020 2:27 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

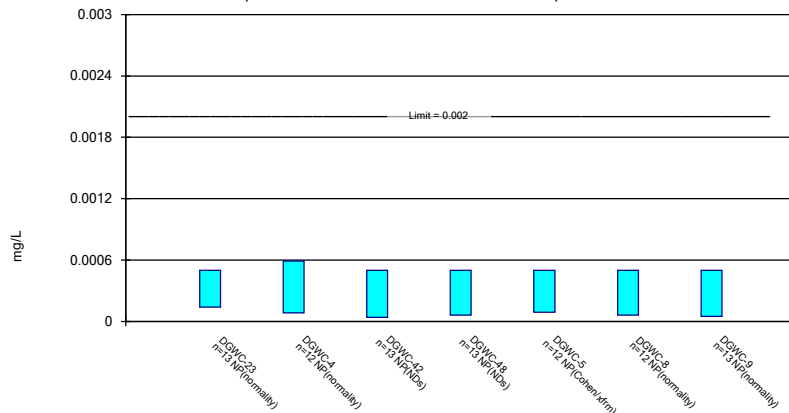
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/29/2020 2:27 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

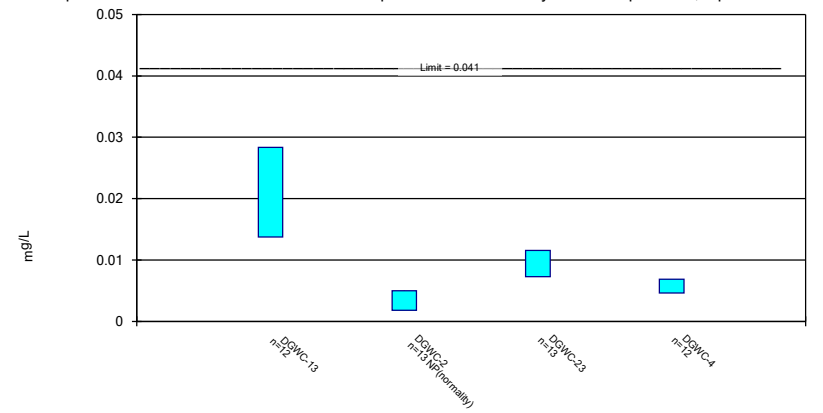
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/29/2020 2:27 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

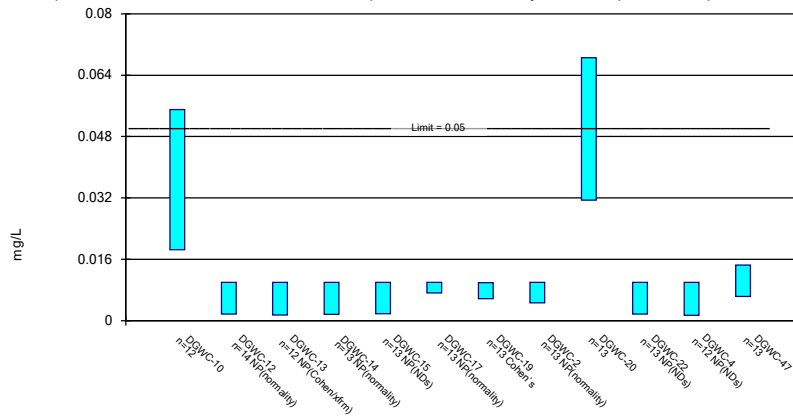
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/29/2020 2:27 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

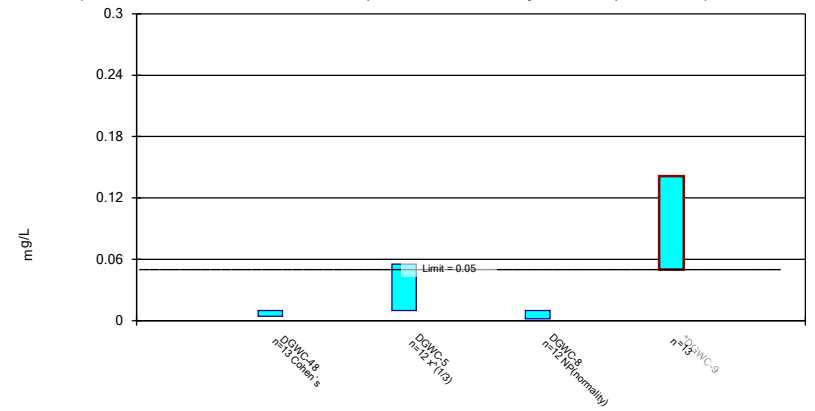
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/29/2020 2:27 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

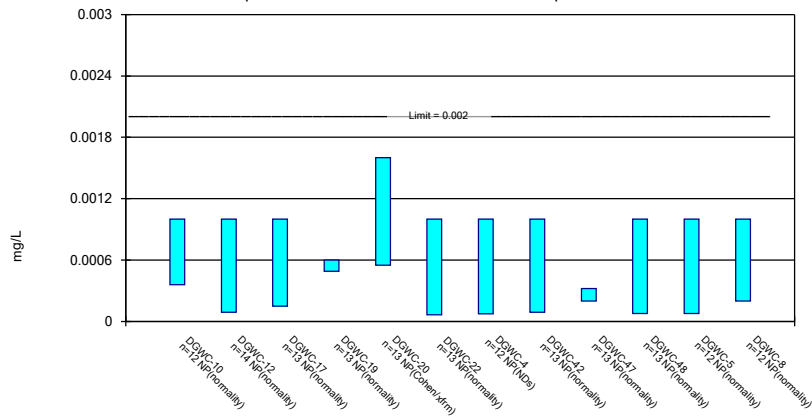
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/29/2020 2:27 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

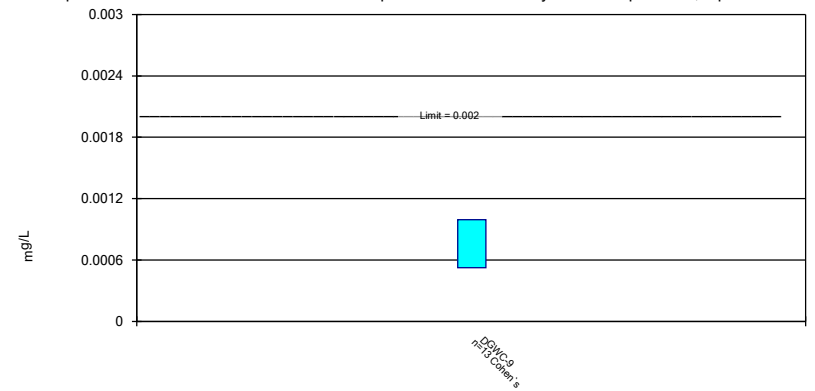
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 10/29/2020 2:27 PM View: Confidence Intervals AP-2,3,4
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: Thallium Analysis Run 10/29/2020 2:27 PM View: Confidence Intervals AP-2,3,4
Plant McDonough Client: Southern Company Data: McDonough AP

APPENDIX C

Statistical Analyses March 2021

GROUNDWATER STATS CONSULTING



July 27, 2021

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)
March 2021 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 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 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. The delineation wells were installed at various times since 2019 and have limited data. Semi-annual sampling of the majority of Appendix IV constituents has been performed for the groundwater monitoring wells 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, 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

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor 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 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 with 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided to demonstrate 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.

- 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 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 and Trend Testing

Time series plots are 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.

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.

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 – March 2021

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 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 most recent sample from each

downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When 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.

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. 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, DGWC-19, and DGWC-21
- Chloride: DGWC-5, DGWC-11, DGWC-15, and DGWC-20
- pH: DGCW-5, 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, and DGWC-48
- Fluoride: DGWC-47 and DGWC-48
- pH: DGWC-9
- Sulfate: DGWC-2, DGWC-8, DGWC-15, DGWC-20, DGWC-47, DGWC-48, DGWA-70 (upgradient), and DGWA-71 (upgradient)
- TDS: DGWC-12, DGWC-20, DGWC-48, and DGWA-53 (upgradient)

A summary of the trend test results follows this letter.

Statistical Analysis of Appendix IV Parameters – March 2021

Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis, and no new outliers were flagged. Interwell tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data through March 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. 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 March 2021 sample event for the federal and state rules (Figure G).

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the federal and state requirements in each downgradient well (Figures H and I, 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 were constructed for these particular cases and may be found at the end of Figures H and I. 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.

Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for the State requirements. 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.

Note that reporting limits decreased for the following constituents during this analysis:

- Beryllium from <0.003 mg/L to <0.0005 mg/L
- Cadmium from <0.0025 mg/L to <0.0005 mg/L
- Chromium from <0.01 mg/L to <0.005 mg/L
- Lead from <0.005 mg/L to <0.001 mg/L
- Mercury from <0.0005 to <0.0002 mg/L
- Selenium from <0.01 mg/L to <0.005 mg/L

As a result, background limits calculated from pooled upgradient well data were lower for these constituents. However, in all of the cases where reporting limits decreased, except for lead which uses the background limit as the state GWPS, the established MCL was higher than the background limits. Therefore, the GWPS were not affected except for lead. Additionally, some of the confidence intervals constructed on downgradient wells changed slightly since all historical non-detects within a given well are replaced with the most recent reporting limit. However, the changes did not affect the exceedances (listed below) which are the same as those in the previous analysis.

A summary of the confidence intervals follows this letter. Exceedances were noted for the following well/constituent pairs:

Federal & State:

- Arsenic: DGWC-9
- Beryllium: DGWC-5, DGWC-9, DGWC-10, DGWC-47, and DGWC-48
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-63, and B-93
- Lithium: DGWC-47 and DGWC-48
- Selenium: DGWC-9

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,



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects: Appendix IV Downgradient & Delineation

Analysis Run 7/7/2021 11:34 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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

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

Beryllium (mg/L)

DGWC-14, DGWC-2, B-108D, B-111D, B-66, B-98

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-101D, B-102D, B-106D, B-107D, B-108D, B-111D, B-115D, B-120D, B-66

Cobalt (mg/L)

DGWC-14, B-109D, B-98

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

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

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-93

Selenium (mg/L)

DGWC-11, DGWC-21, DGWC-23, DGWC-42, B-102D, B-106D, B-107D, B-109D, B-62, B-63, B-66

Thallium (mg/L)

DGWC-11, DGWC-13, DGWC-14, DGWC-15, DGWC-2, DGWC-21, DGWC-23, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, B-111D, B-115D, B-120D, B-62, B-63, B-66, B-77, B-93

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	3/4/2021	0.65	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	3/2/2021	1.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	3/3/2021	3.6	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	3/2/2021	0.58	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	3/2/2021	1.4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	3/3/2021	0.71	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	3/2/2021	2.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	3/2/2021	0.52	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	3/2/2021	3.4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	3/3/2021	5.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	3/3/2021	3.9	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	3/3/2021	4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	3/1/2021	4.7	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	3/3/2021	0.87	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-47	0.13	n/a	3/3/2021	0.17	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	3/3/2021	0.57	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	3/2/2021	4.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	3/2/2021	0.96	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-9	0.13	n/a	3/2/2021	0.77	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40	n/a	3/4/2021	75.8	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40	n/a	3/2/2021	65.3	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-12	40	n/a	3/3/2021	50.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40	n/a	3/2/2021	40.5	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40	n/a	3/2/2021	93.2	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-2	40	n/a	3/2/2021	44	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40	n/a	3/2/2021	74.7	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40	n/a	3/3/2021	82.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40	n/a	3/3/2021	62.3	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40	n/a	3/3/2021	68.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40	n/a	3/1/2021	322	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40	n/a	3/3/2021	66	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40	n/a	3/2/2021	114	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-9	40	n/a	3/2/2021	48.8	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	4.5	n/a	3/4/2021	7.2	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-11	4.5	n/a	3/2/2021	14.4	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-12	4.5	n/a	3/3/2021	10.3	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-13	4.5	n/a	3/2/2021	13.1	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-15	4.5	n/a	3/2/2021	22.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-17	4.5	n/a	3/3/2021	20.9	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-19	4.5	n/a	3/2/2021	27	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-20	4.5	n/a	3/2/2021	28	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-21	4.5	n/a	3/3/2021	19.7	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-22	4.5	n/a	3/3/2021	20.6	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-23	4.5	n/a	3/3/2021	14	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-4	4.5	n/a	3/1/2021	15	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-42	4.5	n/a	3/3/2021	20.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-48	4.5	n/a	3/3/2021	14.2	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-5	4.5	n/a	3/2/2021	9.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-8	4.5	n/a	3/2/2021	8.6	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-9	4.5	n/a	3/2/2021	8.4	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-10	0.42	n/a	3/4/2021	1.8	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	3/2/2021	1.4	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	3/3/2021	0.71	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	3/3/2021	0.67	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-9	0.42	n/a	3/2/2021	0.93	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
pH (SU)	DGWC-19	6.6	5.2	3/2/2021	4.84	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-20	6.6	5.2	3/2/2021	4.45	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-47	6.6	5.2	3/3/2021	3.98	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-48	6.6	5.2	3/3/2021	4.14	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-5	6.6	5.2	3/2/2021	5	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-9	6.6	5.2	3/2/2021	3.99	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-10	34	n/a	3/4/2021	240	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-11	34	n/a	3/2/2021	250	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-12	34	n/a	3/3/2021	203	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-13	34	n/a	3/2/2021	131	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-14	34	n/a	3/2/2021	42.6	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-15	34	n/a	3/2/2021	148	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-17	34	n/a	3/3/2021	237	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-19	34	n/a	3/2/2021	324	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-2	34	n/a	3/2/2021	112	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-20	34	n/a	3/2/2021	458	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-21	34	n/a	3/3/2021	264	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-22	34	n/a	3/3/2021	252	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-23	34	n/a	3/3/2021	221	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-4	34	n/a	3/1/2021	840	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-42	34	n/a	3/3/2021	329	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-47	34	n/a	3/3/2021	143	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-48	34	n/a	3/3/2021	312	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-5	34	n/a	3/2/2021	412	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-8	34	n/a	3/2/2021	152	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-9	34	n/a	3/2/2021	266	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-10	310	n/a	3/4/2021	430	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-11	310	n/a	3/2/2021	456	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-12	310	n/a	3/3/2021	325	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-17	310	n/a	3/3/2021	384	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-19	310	n/a	3/2/2021	513	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-20	310	n/a	3/2/2021	742	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-21	310	n/a	3/3/2021	459	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-22	310	n/a	3/3/2021	442	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-23	310	n/a	3/3/2021	425	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-4	310	n/a	3/1/2021	1140	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-42	310	n/a	3/3/2021	531	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-48	310	n/a	3/3/2021	521	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-5	310	n/a	3/2/2021	730	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-9	310	n/a	3/2/2021	449	39	4.589	0.9669	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 4/21/2021, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	3/4/2021	0.65	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	3/2/2021	1.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	3/3/2021	3.6	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	3/2/2021	0.58	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-14	0.13	n/a	3/2/2021	0.089	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	3/2/2021	1.4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	3/3/2021	0.71	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	3/2/2021	2.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	3/2/2021	0.52	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	3/2/2021	3.4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	3/3/2021	5.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	3/3/2021	3.9	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	3/3/2021	4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	3/1/2021	4.7	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	3/3/2021	0.87	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-47	0.13	n/a	3/3/2021	0.17	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	3/3/2021	0.57	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	3/2/2021	4.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	3/2/2021	0.96	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-9	0.13	n/a	3/2/2021	0.77	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40	n/a	3/4/2021	75.8	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40	n/a	3/2/2021	65.3	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-12	40	n/a	3/3/2021	50.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40	n/a	3/2/2021	40.5	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-14	40	n/a	3/2/2021	11.4	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-15	40	n/a	3/2/2021	36	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-17	40	n/a	3/3/2021	14.3	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40	n/a	3/2/2021	93.2	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-2	40	n/a	3/2/2021	44	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40	n/a	3/2/2021	74.7	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40	n/a	3/3/2021	82.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40	n/a	3/3/2021	62.3	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40	n/a	3/3/2021	68.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40	n/a	3/1/2021	322	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-42	40	n/a	3/3/2021	38.8	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-47	40	n/a	3/3/2021	25.5	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40	n/a	3/3/2021	66	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40	n/a	3/2/2021	114	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-8	40	n/a	3/2/2021	35.6	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-9	40	n/a	3/2/2021	48.8	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	4.5	n/a	3/4/2021	7.2	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-11	4.5	n/a	3/2/2021	14.4	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-12	4.5	n/a	3/3/2021	10.3	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-13	4.5	n/a	3/2/2021	13.1	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-14	4.5	n/a	3/2/2021	3.5	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-15	4.5	n/a	3/2/2021	22.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-17	4.5	n/a	3/3/2021	20.9	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-19	4.5	n/a	3/2/2021	27	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-2	4.5	n/a	3/2/2021	2.1	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-20	4.5	n/a	3/2/2021	28	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	DGWC-21	4.5	n/a	3/3/2021	19.7	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-22	4.5	n/a	3/3/2021	20.6	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-23	4.5	n/a	3/3/2021	14	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-4	4.5	n/a	3/1/2021	15	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-42	4.5	n/a	3/3/2021	20.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-47	4.5	n/a	3/3/2021	2.9	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-48	4.5	n/a	3/3/2021	14.2	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-5	4.5	n/a	3/2/2021	9.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-8	4.5	n/a	3/2/2021	8.6	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-9	4.5	n/a	3/2/2021	8.4	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Fluoride (mg/L)	DGWC-10	0.42	n/a	3/4/2021	1.8	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-11	0.42	n/a	3/2/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-12	0.42	n/a	3/3/2021	0.085J	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-13	0.42	n/a	3/2/2021	0.084J	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-14	0.42	n/a	3/2/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-15	0.42	n/a	3/2/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-17	0.42	n/a	3/3/2021	0.085J	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-19	0.42	n/a	3/2/2021	0.19	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-2	0.42	n/a	3/2/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	3/2/2021	1.4	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-21	0.42	n/a	3/3/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-22	0.42	n/a	3/3/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-23	0.42	n/a	3/3/2021	0.063J	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-4	0.42	n/a	3/1/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-42	0.42	n/a	3/3/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	3/3/2021	0.71	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	3/3/2021	0.67	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-5	0.42	n/a	3/2/2021	0.15	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-8	0.42	n/a	3/2/2021	0.059J	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-9	0.42	n/a	3/2/2021	0.93	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
pH (SU)	DGWC-10	6.6	5.2	3/4/2021	5.27	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-11	6.6	5.2	3/2/2021	5.59	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-12	6.6	5.2	3/3/2021	6.13	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-13	6.6	5.2	3/2/2021	5.685	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-14	6.6	5.2	3/2/2021	5.75	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-15	6.6	5.2	3/2/2021	5.81	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-17	6.6	5.2	3/3/2021	5.23	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-19	6.6	5.2	3/2/2021	4.84	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-2	6.6	5.2	3/2/2021	6.01	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-20	6.6	5.2	3/2/2021	4.45	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-21	6.6	5.2	3/3/2021	5.63	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-22	6.6	5.2	3/3/2021	5.71	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-23	6.6	5.2	3/3/2021	5.85	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-4	6.6	5.2	3/1/2021	5.82	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-42	6.6	5.2	3/3/2021	5.3	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-47	6.6	5.2	3/3/2021	3.98	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-48	6.6	5.2	3/3/2021	4.14	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-5	6.6	5.2	3/2/2021	5	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-8	6.6	5.2	3/2/2021	6.6	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-9	6.6	5.2	3/2/2021	3.99	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	DGWC-10	34	n/a	3/4/2021	240	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-11	34	n/a	3/2/2021	250	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-12	34	n/a	3/3/2021	203	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-13	34	n/a	3/2/2021	131	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-14	34	n/a	3/2/2021	42.6	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-15	34	n/a	3/2/2021	148	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-17	34	n/a	3/3/2021	237	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-19	34	n/a	3/2/2021	324	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-2	34	n/a	3/2/2021	112	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-20	34	n/a	3/2/2021	458	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-21	34	n/a	3/3/2021	264	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-22	34	n/a	3/3/2021	252	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-23	34	n/a	3/3/2021	221	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-4	34	n/a	3/1/2021	840	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-42	34	n/a	3/3/2021	329	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-47	34	n/a	3/3/2021	143	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-48	34	n/a	3/3/2021	312	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-5	34	n/a	3/2/2021	412	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-8	34	n/a	3/2/2021	152	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-9	34	n/a	3/2/2021	266	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-10	310	n/a	3/4/2021	430	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-11	310	n/a	3/2/2021	456	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-12	310	n/a	3/3/2021	325	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-13	310	n/a	3/2/2021	256	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-14	310	n/a	3/2/2021	105	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-15	310	n/a	3/2/2021	272	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-17	310	n/a	3/3/2021	384	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-19	310	n/a	3/2/2021	513	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-2	310	n/a	3/2/2021	241	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-20	310	n/a	3/2/2021	742	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-21	310	n/a	3/3/2021	459	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-22	310	n/a	3/3/2021	442	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-23	310	n/a	3/3/2021	425	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-4	310	n/a	3/1/2021	1140	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-42	310	n/a	3/3/2021	531	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-47	310	n/a	3/3/2021	228	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-48	310	n/a	3/3/2021	521	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-5	310	n/a	3/2/2021	730	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-8	310	n/a	3/2/2021	291	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-9	310	n/a	3/2/2021	449	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Trend Test Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWC-10	-0.7511	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.05061	52	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.084	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.09382	-46	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.2874	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.8052	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.3407	45	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-47	-0.0327	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.07622	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.4548	-57	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-9	-0.2726	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-5.014	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	5.511	54	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.414	64	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-2	-16.96	-74	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	2.817	46	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-4	24.63	44	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-8.047	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	8.557	40	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	1.233	44	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-12	-0.6386	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.7104	56	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-3.213	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	3.056	74	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-1.211	-59	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.096	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.7796	-59	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.489	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.91	-66	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-48	-2.411	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.5523	41	38	Yes	12	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-47	-0.2294	-62	-53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-48	-0.2143	-58	-53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-19	0.06481	72	53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-5	0.1224	62	53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-9	-0.02181	-61	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	-0.3043	-45	-43	Yes	13	30.77	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-1.74	-61	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-8.595	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	18.71	51	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-65.93	-70	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-20	-50.74	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-65.34	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-56.1	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-78.21	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-53 (bg)	-28.3	-53	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-11	34.89	50	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-12	-56.94	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-19	32.2	47	43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-20	-60.85	-58	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-48	-66.66	-68	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-5	38.2	44	38	Yes	12	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWA-53 (bg)	-0.001444	-11	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-70A (bg)	0	8	43	No	13	53.85	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-71 (bg)	-0.0006707	-11	-38	No	12	16.67	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-10	-0.7511	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.05061	52	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.084	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.09382	-46	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-15	0.01697	13	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.04246	36	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-19	-0.2027	-37	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.2874	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.8052	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-21	0.35	22	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-22	0.06786	10	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-23	0.08846	16	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.3407	45	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-42	-0.01525	-25	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-47	-0.0327	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.07622	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-5	-0.2495	-17	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.4548	-57	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-9	-0.2726	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-5.014	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-70A (bg)	-0.2572	-31	-43	No	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.7909	-36	-38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-10	-2.204	-18	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	5.511	54	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-12	-9.486	-40	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-13	-0.7677	-7	-38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.414	64	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-2	-16.96	-74	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-20	-4.138	-30	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	2.817	46	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-22	0.2008	9	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-23	0.7517	19	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-4	24.63	44	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-8.047	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	8.557	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-9	-3.848	-12	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-53 (bg)	-0.2102	-48	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-70A (bg)	-0.08674	-23	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-71 (bg)	0	-1	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-10	-0.6439	-24	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	1.233	44	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-12	-0.6386	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-13	-0.4029	-10	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.7104	56	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-17	0.7896	42	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-3.213	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	3.056	74	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-1.211	-59	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.096	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.7796	-59	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.489	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.91	-66	-43	Yes	13	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	DGWC-48	-2.411	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.5523	41	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-8	-0.1166	-12	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-9	0.6663	35	43	No	13	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-53 (bg)	-0.002153	-6	-58	No	16	12.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-70A (bg)	0.01295	43	48	No	14	64.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-71 (bg)	0	29	53	No	15	80	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-10	0	1	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-20	0.05623	18	53	No	15	6.667	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-47	-0.2294	-62	-53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-48	-0.2143	-58	-53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-9	0	1	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-53 (bg)	0.02687	7	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-70A (bg)	-0.02327	-12	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-71 (bg)	0.04216	34	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-19	0.06481	72	53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-20	-0.03153	-47	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-47	-0.2155	-45	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-48	-0.04228	-28	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-5	0.1224	62	53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-9	-0.02181	-61	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-53 (bg)	-2.119	-29	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	-0.3043	-45	-43	Yes	13	30.77	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-1.74	-61	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-10	-43.7	-39	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-11	18.75	34	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-12	-41.74	-41	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-13	-6.811	-26	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-14	-0.5728	-13	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-8.595	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-17	0.5668	3	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	18.71	51	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-65.93	-70	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-20	-50.74	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-21	-4.956	-30	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-22	-1.843	-5	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-23	0	4	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-4	41.66	32	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-42	-10.69	-27	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-65.34	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-56.1	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-5	4.163	4	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-78.21	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-9	-4.792	-4	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-53 (bg)	-28.3	-53	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-70A (bg)	-3.954	-11	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-71 (bg)	-6.025	-36	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-10	-46.06	-41	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-11	34.89	50	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-12	-56.94	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-17	10.22	23	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-19	32.2	47	43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-20	-60.85	-58	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-21	5.323	17	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-22	-6.297	-24	-43	No	13	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:07 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	DGWC-23	-1.263	-4	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-4	96.98	35	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-42	-9.218	-11	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-48	-66.66	-68	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-5	38.2	44	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-9	9.585	15	43	No	13	0	n/a	n/a	0.01	NP

Tolerance Limits Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 5/21/2021, 11:40 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.0030	41	n/a	n/a	80.49	n/a	n/a	0.1221	NP Inter
Arsenic (mg/L)	0.0050	41	n/a	n/a	80.49	n/a	n/a	0.1221	NP Inter
Barium (mg/L)	0.19	41	n/a	n/a	0	n/a	n/a	0.1221	NP Inter
Beryllium (mg/L)	0.00050	41	n/a	n/a	65.85	n/a	n/a	0.1221	NP Inter
Cadmium (mg/L)	0.00050	41	n/a	n/a	92.68	n/a	n/a	0.1221	NP Inter
Chromium (mg/L)	0.0050	40	n/a	n/a	57.5	n/a	n/a	0.1285	NP Inter
Cobalt (mg/L)	0.032	41	n/a	n/a	34.15	n/a	n/a	0.1221	NP Inter
Combined Radium 226 + 228 (pCi/L)	6.4	43	n/a	n/a	0	n/a	n/a	0.1102	NP Inter
Fluoride (mg/L)	0.42	45	n/a	n/a	51.11	n/a	n/a	0.09944	NP Inter
Lead (mg/L)	0.0010	41	n/a	n/a	78.05	n/a	n/a	0.1221	NP Inter
Lithium (mg/L)	0.030	41	n/a	n/a	36.59	n/a	n/a	0.1221	NP Inter
Mercury (mg/L)	0.00020	41	n/a	n/a	87.8	n/a	n/a	0.1221	NP Inter
Molybdenum (mg/L)	0.041	41	n/a	n/a	63.41	n/a	n/a	0.1221	NP Inter
Selenium (mg/L)	0.0050	41	n/a	n/a	100	n/a	n/a	0.1221	NP Inter
Thallium (mg/L)	0.0010	41	n/a	n/a	95.12	n/a	n/a	0.1221	NP Inter

MCDONOUGH AP-2,3,4 GWPS TABLE					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.19	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.032	0.032	0.032
Combined Radium, Total (pCi/L)	5		6.4	6.4	6.4
Fluoride, Total (mg/L)	4		0.42	4	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015	0.001
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.041	0.1	0.041
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule Specified levels.*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

Federal Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02965	0.01886	0.01	Yes 14	0.02451	0.00806	7.143	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009375	0.005518	0.004	Yes 13	0.007446	0.002593	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01307	0.009031	0.004	Yes 14	0.01105	0.00285	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009361	0.007596	0.004	Yes 14	0.008479	0.001246	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008799	0.006078	0.004	Yes 13	0.007438	0.00183	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005963	0.004937	0.004	Yes 14	0.00545	0.000724	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1913	0.1407	0.032	Yes 13	0.1597	0.04498	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05308	0.04895	0.032	Yes 14	0.05101	0.00292	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6624	0.4681	0.032	Yes 14	0.5652	0.1372	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3954	0.2561	0.032	Yes 14	0.3258	0.09832	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5152	0.4077	0.032	Yes 14	0.4614	0.07592	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09119	0.04656	0.032	Yes 13	0.06888	0.03001	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.1998	0.1395	0.032	Yes 14	0.1697	0.04256	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05663	0.03737	0.032	Yes 4	0.047	0.004243	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.07153	0.05797	0.032	Yes 4	0.06475	0.002986	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07581	0.05851	0.04	Yes 14	0.06716	0.01221	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1285	0.1075	0.04	Yes 14	0.118	0.01479	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.136	0.05177	0.05	Yes 14	0.0939	0.05947	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-62	0.015	0.00046	0.006	No	6	0.01258	0.005936	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-77	0.015	0.00036	0.006	No	5	0.006284	0.007957	40	None	No	0.031	NP (normality)
Antimony (mg/L)	DGWC-12	0.015	0.0003	0.006	No	15	0.01402	0.003796	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.015	0.0011	0.006	No	14	0.01401	0.003715	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.015	0.00073	0.006	No	14	0.01293	0.005255	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.015	0.00045	0.006	No	14	0.01396	0.003889	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.015	0.00036	0.006	No	14	0.01395	0.003913	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.015	0.0006	0.006	No	14	0.01397	0.003849	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.015	0.0013	0.006	No	14	0.01402	0.003661	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.015	0.0007	0.006	No	14	0.01398	0.003822	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.015	0.00058	0.006	No	13	0.01168	0.006305	76.92	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.015	0.0012	0.006	No	14	0.01401	0.003688	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.015	0.00039	0.006	No	14	0.01396	0.003905	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.015	0.0015	0.006	No	13	0.01283	0.005297	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.015	0.00046	0.006	No	13	0.01388	0.004033	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-77	0.025	0.002	0.01	No	5	0.00688	0.01014	20	None	No	0.031	NP (normality)
Arsenic (mg/L)	DGWC-10	0.007102	0.003329	0.01	No	13	0.005215	0.002537	7.692	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.025	0.00063	0.01	No	15	0.02175	0.00858	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.025	0.00039	0.01	No	14	0.02324	0.006577	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.025	0.0013	0.01	No	14	0.01982	0.01029	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.025	0.0008	0.01	No	14	0.01471	0.01233	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001904	0.0008429	0.01	No	14	0.005146	0.008486	21.43	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.025	0.0025	0.01	No	14	0.02168	0.00845	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01726	0.00744	0.01	No	14	0.01235	0.006931	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.025	0.001	0.01	No	14	0.02329	0.006414	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.025	0.0008	0.01	No	13	0.01937	0.0107	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.025	0.0011	0.01	No	14	0.02156	0.008752	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.005	0.0012	0.01	No	14	0.005557	0.008322	21.43	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-48	0.025	0.0008	0.01	No	14	0.01308	0.01238	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-5	0.01377	0.002745	0.01	No	13	0.01193	0.01166	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.025	0.001	0.01	No	13	0.0159	0.01199	61.54	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-9	0.02965	0.01886	0.01	Yes	14	0.02451	0.00806	7.143	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-62	0.02823	0.01974	2	No	6	0.02417	0.003312	0	None	x^2	0.01	Param.
Barium (mg/L)	B-77	0.1267	0.08366	2	No	5	0.1052	0.01285	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03627	0.01773	2	No	4	0.027	0.004082	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.06641	0.008094	2	No	4	0.03725	0.01284	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.0301	0.0237	2	No	13	0.0269	0.004297	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06723	0.05668	2	No	13	0.06195	0.007093	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03098	0.02368	2	No	15	0.02745	0.005573	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03326	0.02738	2	No	13	0.02924	0.007645	7.692	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06288	0.05777	2	No	14	0.06033	0.003607	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.0512	0.04475	2	No	14	0.04798	0.004554	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05737	0.04323	2	No	14	0.0503	0.009982	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02545	0.02154	2	No	14	0.02349	0.002758	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02274	0.02126	2	No	14	0.022	0.001038	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01577	0.009132	2	No	14	0.01245	0.004684	7.143	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	14	0.02617	0.00131	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03811	0.03268	2	No	14	0.03539	0.003832	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02383	0.01824	2	No	14	0.02114	0.004247	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03647	0.03224	2	No	13	0.03435	0.002842	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.02068	0.01657	2	No	14	0.01867	0.003023	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01959	0.01568	2	No	14	0.01764	0.002756	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01446	0.01299	2	No	14	0.01372	0.001036	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01845	0.01679	2	No	12	0.01762	0.001059	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03886	0.02791	2	No	13	0.03338	0.007359	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	DGWC-9	0.01633	0.01495	2	No	14	0.01564	0.0009741	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0025	0.000078	0.004	No	7	0.0007897	0.001168	28.57	None	No	0.008	NP (normality)
Beryllium (mg/L)	B-63	0.0025	0.0003	0.004	No	5	0.000808	0.0009485	20	None	No	0.031	NP (normality)
Beryllium (mg/L)	B-77	0.0025	0.000053	0.004	No	5	0.000572	0.001078	20	None	No	0.031	NP (normality)
Beryllium (mg/L)	B-82	0.001741	0.0008959	0.004	No	4	0.001375	0.0001893	0	None	x^2	0.01	Param.
Beryllium (mg/L)	B-83	0.0008505	0.00001946	0.004	No	4	0.000435	0.000183	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.02365	0.003296	0.004	No	4	0.01348	0.004484	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009375	0.005518	0.004	Yes	13	0.007446	0.002593	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00012	0.004	No	13	0.001448	0.00127	53.85	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-12	0.00049	0.00016	0.004	No	15	0.0005483	0.0009035	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	13	0.001791	0.001201	69.23	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	14	0.002198	0.0008831	85.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00071	0.0005	0.004	No	14	0.0008621	0.0006966	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.0025	0.0018	0.004	No	14	0.002029	0.0003451	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.0057	0.0025	0.004	No	14	0.003907	0.001923	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-21	0.0025	0.0001	0.004	No	14	0.0005307	0.000946	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0025	0.00014	0.004	No	14	0.0005357	0.0009437	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.00077	0.00038	0.004	No	14	0.0007693	0.0008509	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.0025	0.00019	0.004	No	13	0.0005931	0.000964	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002779	0.002164	0.004	No	14	0.002471	0.000434	7.143	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01307	0.009031	0.004	Yes	14	0.01105	0.00285	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009361	0.007596	0.004	Yes	14	0.008479	0.001246	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008799	0.006078	0.004	Yes	13	0.007438	0.00183	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003316	0.001715	0.004	No	13	0.002515	0.001077	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005963	0.004937	0.004	Yes	14	0.00545	0.000724	0	None	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0008228	0.0001922	0.005	No	4	0.0005075	0.0001389	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004871	0.0001929	0.005	No	4	0.00034	0.00006481	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001237	0.0008415	0.005	No	13	0.001039	0.000266	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00013	0.005	No	13	0.0004162	0.0001596	76.92	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003448	0.0002215	0.005	No	15	0.0003873	0.0001963	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	13	0.0004446	0.0001374	84.62	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	14	0.0004236	0.0002458	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	14	0.0003036	0.00009195	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No	14	0.0004243	0.0001722	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002887	0.0001286	0.005	No	14	0.0003571	0.0002393	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002266	0.001806	0.005	No	14	0.002036	0.0003249	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007507	0.0005278	0.005	No	14	0.0006393	0.0001574	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007098	0.0004416	0.005	No	14	0.0005757	0.0001893	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0005	0.00018	0.005	No	14	0.0003043	0.0002174	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0007665	0.0005618	0.005	No	13	0.0007054	0.0001506	15.38	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001165	0.0004751	0.005	No	14	0.0008521	0.0005665	14.29	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002239	0.001233	0.005	No	14	0.001736	0.0007099	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.004409	0.002455	0.005	No	14	0.003579	0.001733	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.0007387	0.0003671	0.005	No	13	0.0006046	0.0002635	15.38	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002555	0.001968	0.005	No	13	0.002262	0.0003948	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006877	0.0005003	0.005	No	14	0.0005971	0.0001413	14.29	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-62	0.025	0.00098	0.1	No	6	0.021	0.009806	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-77	0.025	0.00068	0.1	No	5	0.005892	0.0107	20	None	No	0.031	NP (normality)
Chromium (mg/L)	B-82	0.025	0.0011	0.1	No	4	0.01903	0.01195	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No	4	0.004175	0.001652	0	None	No	0.0625	NP (selected)
Chromium (mg/L)	DGWC-10	0.025	0.0007	0.1	No	13	0.008269	0.01161	30.77	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.025	0.0006	0.1	No	13	0.01749	0.01172	69.23	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.025	0.00099	0.1	No	15	0.0218	0.008457	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.025	0.00066	0.1	No	13	0.01753	0.01166	69.23	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.025	0.00058	0.1	No	14	0.01724	0.01105	71.43	None	No	0.01	NP (NDs)

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Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No	14	0.005929	0.008088	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.01	0.0023	0.1	No	14	0.006307	0.008166	21.43	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.025	0.00046	0.1	No	14	0.01451	0.01257	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.025	0.0015	0.1	No	14	0.009071	0.01068	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.025	0.0005	0.1	No	14	0.01464	0.01242	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.025	0.0012	0.1	No	14	0.0233	0.006361	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.025	0.0005	0.1	No	14	0.007701	0.01136	28.57	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.025	0.0005	0.1	No	13	0.02312	0.006795	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.025	0.0005	0.1	No	14	0.01295	0.01252	50	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-47	0.025	0.0007	0.1	No	14	0.02326	0.006494	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.025	0.0007	0.1	No	14	0.02151	0.008879	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.025	0.00045	0.1	No	13	0.02311	0.006809	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.025	0.00061	0.1	No	13	0.01404	0.01234	53.85	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.025	0.00059	0.1	No	14	0.01492	0.01215	57.14	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	5	0.0626	0.02871	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-62	0.0125	0.0003	0.032	No	6	0.008435	0.006297	66.67	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	B-63	0.05663	0.03737	0.032	Yes	4	0.047	0.004243	0	None	No	0.01	Param.
Cobalt (mg/L)	B-66	0.01156	0.004037	0.032	No	4	0.008975	0.002876	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	5	0.00168	0.001021	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-82	0.0091	0.00005969	0.032	No	5	0.00458	0.002698	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	4	0.01405	0.006498	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	4	0.01115	0.01037	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-93	0.07153	0.05797	0.032	Yes	4	0.06475	0.002986	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1913	0.1407	0.032	Yes	13	0.1597	0.04498	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0125	0.0006	0.032	No	13	0.006148	0.006122	46.15	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.008715	0.002819	0.032	No	15	0.007067	0.007151	13.33	None	ln(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.0125	0.0004	0.032	No	13	0.009714	0.005295	76.92	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0042	0.0015	0.032	No	14	0.004514	0.006548	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02759	0.02038	0.032	No	14	0.02342	0.006545	7.143	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05308	0.04895	0.032	Yes	14	0.05101	0.00292	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.0266	0.01044	0.032	No	14	0.01852	0.0114	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6624	0.4681	0.032	Yes	14	0.5652	0.1372	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.01042	0.00825	0.032	No	14	0.009264	0.001642	14.29	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.01056	0.008065	0.032	No	14	0.009314	0.001763	14.29	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0125	0.00039	0.032	No	14	0.00764	0.00594	64.29	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.005	0.0015	0.032	No	13	0.0028	0.003059	15.38	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04655	0.01846	0.032	No	14	0.03251	0.01983	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3954	0.2561	0.032	Yes	14	0.3258	0.09832	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5152	0.4077	0.032	Yes	14	0.4614	0.07592	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.0432	0.02	0.032	No	13	0.0284	0.01141	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.09119	0.04656	0.032	Yes	13	0.06888	0.03001	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.1998	0.1395	0.032	Yes	14	0.1697	0.04256	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.146	1.006	6.4	No	5	1.576	0.3399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.761	6.4	No	4	1.74	0.6675	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	6.4	No	4	0.732	0.4866	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.529	1.097	6.4	No	14	1.313	0.3047	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.278	0.628	6.4	No	14	0.9529	0.4588	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.208	0.3559	6.4	No	14	0.8355	0.6964	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.505	1.02	6.4	No	14	1.262	0.3426	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.132	0.6987	6.4	No	14	0.9154	0.3058	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.636	0.5457	6.4	No	14	1.153	0.8967	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.068	0.5494	6.4	No	14	0.8085	0.3658	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.08	0.5429	6.4	No	14	0.8115	0.3792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.463	0.8655	6.4	No	14	1.164	0.4217	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.592	0.9015	6.4	No	14	1.247	0.4874	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.157	0.5765	6.4	No	14	0.8667	0.4098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.411	0.7487	6.4	No	14	1.08	0.4673	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.446	0.7232	6.4	No	14	1.085	0.51	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.743	1.164	6.4	No	14	1.454	0.4088	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.17	0.7016	6.4	No	14	0.9356	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.952	1.739	6.4	No	14	2.346	0.856	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.433	1.56	6.4	No	14	2.017	0.6658	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.89	1.013	6.4	No	14	1.452	0.619	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.831	0.4529	6.4	No	14	0.6419	0.2669	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.453	0.9271	6.4	No	14	1.19	0.3711	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.4478	0.02966	4	No	5	0.1946	0.1426	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.096	4	No	4	0.099	0.002	75	None	No	0.0625	NP (NDs)
Fluoride, total (mg/L)	B-83	0.1493	0.006499	4	No	4	0.08775	0.03484	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.819	1.311	4	No	15	1.565	0.3749	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	14	0.079	0.0265	57.14	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1853	0.05213	4	No	15	0.1627	0.149	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2244	0.08651	4	No	14	0.1623	0.1114	7.143	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No	15	0.08493	0.02708	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	15	0.1057	0.04512	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.297	0.1042	4	No	15	0.2133	0.1559	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.541	0.1751	4	No	15	0.384	0.3196	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No	15	0.1489	0.1623	40	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9883	0.4184	4	No	15	0.7033	0.4205	6.667	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No	15	0.1075	0.06895	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No	15	0.1197	0.06742	46.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.258	0.0936	4	No	15	0.1919	0.1589	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	15	0.1388	0.1835	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	15	0.092	0.02242	86.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.191	0.5527	4	No	15	0.872	0.4711	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.231	0.6281	4	No	15	0.9293	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.86	0.2558	4	No	14	0.5957	0.4593	7.143	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4684	0.1363	4	No	14	0.3024	0.2344	14.29	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.293	0.9536	4	No	15	1.123	0.2505	0	None	No	0.01	Param.
Lead (mg/L)	B-77	0.001564	0.00006121	0.015	No	5	0.001484	0.002048	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-82	0.0002577	0.00003979	0.015	No	4	0.001332	0.002446	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-83	0.00092	0.000065	0.015	No	4	0.0003188	0.0004031	0	None	No	0.0625	NP (selected)
Lead (mg/L)	DGWC-10	0.005	0.000092	0.015	No	13	0.002752	0.002527	53.85	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.005	0.000076	0.015	No	13	0.003115	0.002481	61.54	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.005	0.00011	0.015	No	15	0.004347	0.001722	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.005	0.0002	0.015	No	13	0.004254	0.001822	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.005	0.000096	0.015	No	14	0.003944	0.002097	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.005	0.000082	0.015	No	14	0.002981	0.002435	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.005	0.00009	0.015	No	14	0.002557	0.002536	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-19	0.005	0.00007	0.015	No	14	0.003256	0.002428	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.005	0.000086	0.015	No	14	0.002195	0.002521	42.86	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.005	0.00015	0.015	No	14	0.002998	0.002404	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.005	0.00014	0.015	No	14	0.00259	0.002502	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-23	0.005	0.000066	0.015	No	14	0.004648	0.001319	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.005	0.0001	0.015	No	13	0.003498	0.002346	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0016	0.0002	0.015	No	14	0.001087	0.001699	14.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-47	0.005	0.00053	0.015	No	14	0.001658	0.001822	21.43	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0035	0.00095	0.015	No	14	0.001998	0.001463	14.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.005	0.000051	0.015	No	13	0.001798	0.002308	30.77	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.005	0.0001	0.015	No	13	0.002445	0.002467	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.005	0.00028	0.015	No	14	0.003971	0.002044	78.57	None	No	0.01	NP (NDs)

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No 6	0.0094	0.002773	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No 4	0.00855	0.004303	25	None	No	0.0625	NP (normality)
Lithium (mg/L)	B-77	0.0047	0.00095	0.04	No 5	0.00243	0.001649	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.04	No 4	0.002525	0.001441	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-83	0.005556	0.0002944	0.04	No 4	0.002925	0.001159	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-10	0.004225	0.002329	0.04	No 13	0.005362	0.004453	15.38	Kaplan-Meier	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No 13	0.003208	0.003556	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.00097	0.04	No 15	0.01035	0.006814	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.015	0.0028	0.04	No 13	0.004977	0.004456	15.38	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0042	0.0032	0.04	No 14	0.004743	0.003193	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.04	No 13	0.006292	0.0008655	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No 14	0.009036	0.007147	57.14	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.003	0.04	No 14	0.004029	0.003166	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.04	No 14	0.05085	0.03062	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No 14	0.0067	0.005703	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0054	0.04	No 14	0.0066	0.002444	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0047	0.0037	0.04	No 14	0.004907	0.00293	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01331	0.00359	0.04	No 14	0.01191	0.01899	7.143	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0024	0.04	No 13	0.003808	0.003388	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01232	0.009904	0.04	No 14	0.01111	0.001708	7.143	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07581	0.05851	0.04	Yes 14	0.06716	0.01221	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1285	0.1075	0.04	Yes 14	0.118	0.01479	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.00831	0.003998	0.04	No 13	0.006285	0.003179	7.692	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0075	0.0045	0.04	No 13	0.006238	0.002831	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02951	0.02298	0.04	No 14	0.02624	0.004608	7.143	None	No	0.01	Param.
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No 4	0.0001775	0.000045	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	DGWC-10	0.0002	0.00008	0.002	No 13	0.0001632	0.00005767	69.23	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00006	0.002	No 13	0.0001685	0.00006026	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00006	0.002	No 15	0.0001511	0.00006562	60	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No 13	0.0001815	0.00004525	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No 14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No 14	0.00019	0.00003742	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No 14	0.0001443	0.00006413	50	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No 14	0.00017	0.00006051	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No 14	0.0002052	0.0001354	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No 14	0.000175	0.00004973	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No 14	0.000155	0.00006454	64.29	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No 14	0.0001718	0.0000571	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002069	0.0001323	0.002	No 14	0.0001907	0.0000554	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.000082	0.002	No 13	0.0002117	0.000122	76.92	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No 14	0.0001886	0.00004276	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No 14	0.00019	0.00003742	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002	0.000094	0.002	No 13	0.0001842	0.000118	15.38	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-8	0.0002	0.00006	0.002	No 13	0.0001455	0.00006393	53.85	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No 14	0.0001916	0.0000896	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02721	0.01333	0.1	No 13	0.02027	0.009331	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No 14	0.005293	0.004249	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01127	0.006572	0.1	No 14	0.008921	0.003316	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007424	0.004715	0.1	No 13	0.006069	0.001821	7.692	None	No	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No 5	0.00434	0.001476	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-82	0.002418	0.001282	0.05	No 4	0.003425	0.00183	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-83	0.0317	0.001397	0.05	No 4	0.01655	0.006674	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-10	0.05457	0.02102	0.05	No 13	0.03779	0.02256	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.01	0.0017	0.05	No 15	0.00386	0.002327	53.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004566	0.001865	0.05	No 13	0.004177	0.002488	23.08	Kaplan-Meier	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	14	0.004407	0.002227	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	14	0.005129	0.001641	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009481	0.006361	0.05	No	14	0.008014	0.002436	14.29	None	x ^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.009002	0.005583	0.05	No	14	0.007293	0.002414	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0046	0.05	No	14	0.005343	0.0015	50	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06981	0.03422	0.05	No	14	0.05201	0.02512	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	14	0.004764	0.000882	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	13	0.004723	0.0009985	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01358	0.005492	0.05	No	14	0.009536	0.005709	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008378	0.003779	0.05	No	14	0.006079	0.003247	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.04987	0.00968	0.05	No	13	0.03438	0.04333	7.692	None	x ^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.004333	0.002103	0.05	No	13	0.004554	0.002228	46.15	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.136	0.05177	0.05	Yes	14	0.0939	0.05947	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	4	0.0005523	0.000517	50	None	No	0.0625	NP (normality)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	4	0.000768	0.000464	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	13	0.0005077	0.0002284	15.38	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	15	0.0005778	0.0004673	53.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00015	0.002	No	14	0.000355	0.00035	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	14	0.0005429	0.0001435	7.143	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.001122	0.0005097	0.002	No	14	0.0009721	0.000504	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	14	0.0006667	0.000464	64.29	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	13	0.0009287	0.0002571	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	14	0.0007385	0.0004291	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	14	0.0003507	0.0002785	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	14	0.0006719	0.0004569	64.29	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.000078	0.002	No	13	0.0007954	0.00039	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	13	0.0004038	0.0003442	23.08	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.0006127	0.0004368	0.002	No	14	0.0007243	0.0002381	35.71	Kaplan-Meier	sqrt(x)	0.01	Param.

State Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02965	0.01886	0.01	Yes	14	0.02451	0.00806	7.143	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009375	0.005518	0.004	Yes	13	0.007446	0.002593	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01307	0.009031	0.004	Yes	14	0.01105	0.00285	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009361	0.007596	0.004	Yes	14	0.008479	0.001246	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008799	0.006078	0.004	Yes	13	0.007438	0.00183	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005963	0.004937	0.004	Yes	14	0.00545	0.000724	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05663	0.03737	0.032	Yes	4	0.047	0.004243	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.07153	0.05797	0.032	Yes	4	0.06475	0.002986	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1913	0.1407	0.032	Yes	13	0.1597	0.04498	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05308	0.04895	0.032	Yes	14	0.05101	0.00292	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6624	0.4681	0.032	Yes	14	0.5652	0.1372	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3954	0.2561	0.032	Yes	14	0.3258	0.09832	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5152	0.4077	0.032	Yes	14	0.4614	0.07592	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09119	0.04656	0.032	Yes	13	0.06888	0.03001	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.1998	0.1395	0.032	Yes	14	0.1697	0.04256	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07581	0.05851	0.03	Yes	14	0.06716	0.01221	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1285	0.1075	0.03	Yes	14	0.118	0.01479	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.136	0.05177	0.05	Yes	14	0.0939	0.05947	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-62	0.015	0.00046	0.006	No	6	0.01258	0.005936	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-77	0.015	0.00036	0.006	No	5	0.006284	0.007957	40	None	No	0.031	NP (normality)
Antimony (mg/L)	DGWC-12	0.015	0.0003	0.006	No	15	0.01402	0.003796	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.015	0.0011	0.006	No	14	0.01401	0.003715	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.015	0.00073	0.006	No	14	0.01293	0.005255	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.015	0.00045	0.006	No	14	0.01396	0.003889	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.015	0.00036	0.006	No	14	0.01395	0.003913	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.015	0.0006	0.006	No	14	0.01397	0.003849	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.015	0.0013	0.006	No	14	0.01402	0.003661	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.015	0.0007	0.006	No	14	0.01398	0.003822	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.015	0.00058	0.006	No	13	0.01168	0.006305	76.92	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.015	0.0012	0.006	No	14	0.01401	0.003688	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.015	0.00039	0.006	No	14	0.01396	0.003905	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.015	0.0015	0.006	No	13	0.01283	0.005297	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.015	0.00046	0.006	No	13	0.01388	0.004033	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-77	0.025	0.002	0.01	No	5	0.00688	0.01014	20	None	No	0.031	NP (normality)
Arsenic (mg/L)	DGWC-10	0.007102	0.003329	0.01	No	13	0.005215	0.002537	7.692	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.025	0.00063	0.01	No	15	0.02175	0.00858	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.025	0.00039	0.01	No	14	0.02324	0.006577	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.025	0.0013	0.01	No	14	0.01982	0.01029	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.025	0.0008	0.01	No	14	0.01471	0.01233	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001904	0.0008429	0.01	No	14	0.005146	0.008486	21.43	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.025	0.0025	0.01	No	14	0.02168	0.00845	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01726	0.00744	0.01	No	14	0.01235	0.006931	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.025	0.001	0.01	No	14	0.02329	0.006414	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.025	0.0008	0.01	No	13	0.01937	0.0107	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.025	0.0011	0.01	No	14	0.02156	0.008752	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.005	0.0012	0.01	No	14	0.005557	0.008322	21.43	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-48	0.025	0.0008	0.01	No	14	0.01308	0.01238	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-5	0.01377	0.002745	0.01	No	13	0.01193	0.01166	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.025	0.001	0.01	No	13	0.0159	0.01199	61.54	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-9	0.02965	0.01886	0.01	Yes	14	0.02451	0.00806	7.143	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-62	0.02823	0.01974	2	No	6	0.02417	0.003312	0	None	x^2	0.01	Param.
Barium (mg/L)	B-77	0.1267	0.08366	2	No	5	0.1052	0.01285	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03627	0.01773	2	No	4	0.027	0.004082	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.06641	0.008094	2	No	4	0.03725	0.01284	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.0301	0.0237	2	No	13	0.0269	0.004297	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06723	0.05668	2	No	13	0.06195	0.007093	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03098	0.02368	2	No	15	0.02745	0.005573	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03326	0.02738	2	No	13	0.02924	0.007645	7.692	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06288	0.05777	2	No	14	0.06033	0.003607	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.0512	0.04475	2	No	14	0.04798	0.004554	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05737	0.04323	2	No	14	0.0503	0.009982	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02545	0.02154	2	No	14	0.02349	0.002758	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02274	0.02126	2	No	14	0.022	0.001038	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01577	0.009132	2	No	14	0.01245	0.004684	7.143	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	14	0.02617	0.00131	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03811	0.03268	2	No	14	0.03539	0.003832	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02383	0.01824	2	No	14	0.02114	0.004247	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03647	0.03224	2	No	13	0.03435	0.002842	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.02068	0.01657	2	No	14	0.01867	0.003023	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01959	0.01568	2	No	14	0.01764	0.002756	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01446	0.01299	2	No	14	0.01372	0.001036	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01845	0.01679	2	No	12	0.01762	0.001059	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03886	0.02791	2	No	13	0.03338	0.007359	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	DGWC-9	0.01633	0.01495	2	No	14	0.01564	0.0009741	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0025	0.000078	0.004	No	7	0.0007897	0.001168	28.57	None	No	0.008	NP (normality)
Beryllium (mg/L)	B-63	0.0025	0.0003	0.004	No	5	0.000808	0.0009485	20	None	No	0.031	NP (normality)
Beryllium (mg/L)	B-77	0.0025	0.000053	0.004	No	5	0.000572	0.001078	20	None	No	0.031	NP (normality)
Beryllium (mg/L)	B-82	0.001741	0.0008959	0.004	No	4	0.001375	0.0001893	0	None	x^2	0.01	Param.
Beryllium (mg/L)	B-83	0.0008505	0.00001946	0.004	No	4	0.000435	0.000183	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.02365	0.003296	0.004	No	4	0.01348	0.004484	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009375	0.005518	0.004	Yes	13	0.007446	0.002593	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00012	0.004	No	13	0.001448	0.00127	53.85	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-12	0.00049	0.00016	0.004	No	15	0.0005483	0.0009035	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	13	0.001791	0.001201	69.23	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	14	0.002198	0.0008831	85.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00071	0.0005	0.004	No	14	0.0008621	0.0006966	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.0025	0.0018	0.004	No	14	0.002029	0.0003451	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.0057	0.0025	0.004	No	14	0.003907	0.001923	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-21	0.0025	0.0001	0.004	No	14	0.0005307	0.000946	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0025	0.00014	0.004	No	14	0.0005357	0.0009437	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.00077	0.00038	0.004	No	14	0.0007693	0.0008509	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.0025	0.00019	0.004	No	13	0.0005931	0.000964	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002779	0.002164	0.004	No	14	0.002471	0.000434	7.143	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01307	0.009031	0.004	Yes	14	0.01105	0.00285	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009361	0.007596	0.004	Yes	14	0.008479	0.001246	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008799	0.006078	0.004	Yes	13	0.007438	0.00183	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003316	0.001715	0.004	No	13	0.002515	0.001077	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005963	0.004937	0.004	Yes	14	0.00545	0.000724	0	None	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0008228	0.0001922	0.005	No	4	0.0005075	0.0001389	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004871	0.0001929	0.005	No	4	0.00034	0.00006481	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001237	0.0008415	0.005	No	13	0.001039	0.000266	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00013	0.005	No	13	0.0004162	0.0001596	76.92	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003448	0.0002215	0.005	No	15	0.0003873	0.0001963	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	13	0.0004446	0.0001374	84.62	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	14	0.0004236	0.0002458	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	14	0.0003036	0.00009195	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No	14	0.0004243	0.0001722	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002887	0.0001286	0.005	No	14	0.0003571	0.0002393	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002266	0.001806	0.005	No	14	0.002036	0.0003249	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007507	0.0005278	0.005	No	14	0.0006393	0.0001574	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007098	0.0004416	0.005	No	14	0.0005757	0.0001893	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0005	0.00018	0.005	No	14	0.0003043	0.0002174	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0007665	0.0005618	0.005	No	13	0.0007054	0.0001506	15.38	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001165	0.0004751	0.005	No	14	0.0008521	0.0005665	14.29	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002239	0.001233	0.005	No	14	0.001736	0.0007099	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.004409	0.002455	0.005	No	14	0.003579	0.001733	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.0007387	0.0003671	0.005	No	13	0.0006046	0.0002635	15.38	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002555	0.001968	0.005	No	13	0.002262	0.0003948	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006877	0.0005003	0.005	No	14	0.0005971	0.0001413	14.29	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-62	0.025	0.00098	0.1	No	6	0.021	0.009806	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-77	0.025	0.00068	0.1	No	5	0.005892	0.0107	20	None	No	0.031	NP (normality)
Chromium (mg/L)	B-82	0.025	0.0011	0.1	No	4	0.01903	0.01195	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No	4	0.004175	0.001652	0	None	No	0.0625	NP (selected)
Chromium (mg/L)	DGWC-10	0.025	0.0007	0.1	No	13	0.008269	0.01161	30.77	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.025	0.0006	0.1	No	13	0.01749	0.01172	69.23	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.025	0.00099	0.1	No	15	0.0218	0.008457	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.025	0.00066	0.1	No	13	0.01753	0.01166	69.23	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.025	0.00058	0.1	No	14	0.01724	0.01105	71.43	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No	14	0.005929	0.008088	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.01	0.0023	0.1	No	14	0.006307	0.008166	21.43	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.025	0.00046	0.1	No	14	0.01451	0.01257	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.025	0.0015	0.1	No	14	0.009071	0.01068	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.025	0.0005	0.1	No	14	0.01464	0.01242	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.025	0.0012	0.1	No	14	0.0233	0.006361	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.025	0.0005	0.1	No	14	0.007701	0.01136	28.57	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.025	0.0005	0.1	No	13	0.02312	0.006795	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.025	0.0005	0.1	No	14	0.01295	0.01252	50	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-47	0.025	0.0007	0.1	No	14	0.02326	0.006494	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.025	0.0007	0.1	No	14	0.02151	0.008879	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.025	0.00045	0.1	No	13	0.02311	0.006809	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.025	0.00061	0.1	No	13	0.01404	0.01234	53.85	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.025	0.00059	0.1	No	14	0.01492	0.01215	57.14	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	5	0.0626	0.02871	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-62	0.0125	0.0003	0.032	No	6	0.008435	0.006297	66.67	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	B-63	0.05663	0.03737	0.032	Yes	4	0.047	0.004243	0	None	No	0.01	Param.
Cobalt (mg/L)	B-66	0.01156	0.004037	0.032	No	4	0.008975	0.002876	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	5	0.00168	0.001021	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-82	0.0091	0.00005969	0.032	No	5	0.00458	0.002698	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	4	0.01405	0.006498	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	4	0.01115	0.01037	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-93	0.07153	0.05797	0.032	Yes	4	0.06475	0.002986	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1913	0.1407	0.032	Yes	13	0.1597	0.04498	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0125	0.0006	0.032	No	13	0.006148	0.006122	46.15	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.008715	0.002819	0.032	No	15	0.007067	0.007151	13.33	None	ln(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.0125	0.0004	0.032	No	13	0.009714	0.005295	76.92	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0042	0.0015	0.032	No	14	0.004514	0.006548	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02759	0.02038	0.032	No	14	0.02342	0.006545	7.143	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05308	0.04895	0.032	Yes	14	0.05101	0.00292	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.0266	0.01044	0.032	No	14	0.01852	0.0114	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6624	0.4681	0.032	Yes	14	0.5652	0.1372	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.01042	0.00825	0.032	No	14	0.009264	0.001642	14.29	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.01056	0.008065	0.032	No	14	0.009314	0.001763	14.29	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0125	0.00039	0.032	No	14	0.00764	0.00594	64.29	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.005	0.0015	0.032	No	13	0.0028	0.003059	15.38	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04655	0.01846	0.032	No	14	0.03251	0.01983	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3954	0.2561	0.032	Yes	14	0.3258	0.09832	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5152	0.4077	0.032	Yes	14	0.4614	0.07592	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.0432	0.02	0.032	No	13	0.0284	0.01141	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.09119	0.04656	0.032	Yes	13	0.06888	0.03001	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.1998	0.1395	0.032	Yes	14	0.1697	0.04256	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.146	1.006	6.4	No	5	1.576	0.3399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.761	6.4	No	4	1.74	0.6675	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	6.4	No	4	0.732	0.4866	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.529	1.097	6.4	No	14	1.313	0.3047	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.278	0.628	6.4	No	14	0.9529	0.4588	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.208	0.3559	6.4	No	14	0.8355	0.6964	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.505	1.02	6.4	No	14	1.262	0.3426	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.132	0.6987	6.4	No	14	0.9154	0.3058	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.636	0.5457	6.4	No	14	1.153	0.8967	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.068	0.5494	6.4	No	14	0.8085	0.3658	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.08	0.5429	6.4	No	14	0.8115	0.3792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.463	0.8655	6.4	No	14	1.164	0.4217	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.592	0.9015	6.4	No	14	1.247	0.4874	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.157	0.5765	6.4	No	14	0.8667	0.4098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.411	0.7487	6.4	No	14	1.08	0.4673	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.446	0.7232	6.4	No	14	1.085	0.51	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.743	1.164	6.4	No	14	1.454	0.4088	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.17	0.7016	6.4	No	14	0.9356	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.952	1.739	6.4	No	14	2.346	0.856	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.433	1.56	6.4	No	14	2.017	0.6658	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.89	1.013	6.4	No	14	1.452	0.619	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.831	0.4529	6.4	No	14	0.6419	0.2669	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.453	0.9271	6.4	No	14	1.19	0.3711	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.4478	0.02966	4	No	5	0.1946	0.1426	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.096	4	No	4	0.099	0.002	75	None	No	0.0625	NP (NDs)
Fluoride, total (mg/L)	B-83	0.1493	0.006499	4	No	4	0.08775	0.03484	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.819	1.311	4	No	15	1.565	0.3749	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	14	0.079	0.0265	57.14	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1853	0.05213	4	No	15	0.1627	0.149	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2244	0.08651	4	No	14	0.1623	0.1114	7.143	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No	15	0.08493	0.02708	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	15	0.1057	0.04512	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.297	0.1042	4	No	15	0.2133	0.1559	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.541	0.1751	4	No	15	0.384	0.3196	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No	15	0.1489	0.1623	40	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9883	0.4184	4	No	15	0.7033	0.4205	6.667	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No	15	0.1075	0.06895	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No	15	0.1197	0.06742	46.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.258	0.0936	4	No	15	0.1919	0.1589	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	15	0.1388	0.1835	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	15	0.092	0.02242	86.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.191	0.5527	4	No	15	0.872	0.4711	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.231	0.6281	4	No	15	0.9293	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.86	0.2558	4	No	14	0.5957	0.4593	7.143	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4684	0.1363	4	No	14	0.3024	0.2344	14.29	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.293	0.9536	4	No	15	1.123	0.2505	0	None	No	0.01	Param.
Lead (mg/L)	B-77	0.001564	0.00006121	0.001	No	5	0.001484	0.002048	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-82	0.0002577	0.00003979	0.001	No	4	0.001332	0.002446	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-83	0.00092	0.000065	0.001	No	4	0.0003188	0.0004031	0	None	No	0.0625	NP (selected)
Lead (mg/L)	DGWC-10	0.005	0.000092	0.001	No	13	0.002752	0.002527	53.85	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.005	0.000076	0.001	No	13	0.003115	0.002481	61.54	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.005	0.00011	0.001	No	15	0.004347	0.001722	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.005	0.0002	0.001	No	13	0.004254	0.001822	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.005	0.000096	0.001	No	14	0.003944	0.002097	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.005	0.000082	0.001	No	14	0.002981	0.002435	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.005	0.00009	0.001	No	14	0.002557	0.002536	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-19	0.005	0.00007	0.001	No	14	0.003256	0.002428	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.005	0.000086	0.001	No	14	0.002195	0.002521	42.86	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.005	0.00015	0.001	No	14	0.002998	0.002404	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.005	0.00014	0.001	No	14	0.00259	0.002502	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-23	0.005	0.000066	0.001	No	14	0.004648	0.001319	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.005	0.0001	0.001	No	13	0.003498	0.002346	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0016	0.0002	0.001	No	14	0.001087	0.001699	14.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-47	0.005	0.00053	0.001	No	14	0.001658	0.001822	21.43	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0035	0.00095	0.001	No	14	0.001998	0.001463	14.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.005	0.000051	0.001	No	13	0.001798	0.002308	30.77	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.005	0.0001	0.001	No	13	0.002445	0.002467	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.005	0.00028	0.001	No	14	0.003971	0.002044	78.57	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-62	0.015	0.0078	0.03	No 6	0.0094	0.002773	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.03	No 4	0.00855	0.004303	25	None	No	0.0625	NP (normality)
Lithium (mg/L)	B-77	0.0047	0.00095	0.03	No 5	0.00243	0.001649	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.03	No 4	0.002525	0.001441	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-83	0.005556	0.0002944	0.03	No 4	0.002925	0.001159	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-10	0.004225	0.002329	0.03	No 13	0.005362	0.004453	15.38	Kaplan-Meier	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.03	No 13	0.003208	0.003556	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.00097	0.03	No 15	0.01035	0.006814	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.015	0.0028	0.03	No 13	0.004977	0.004456	15.38	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0042	0.0032	0.03	No 14	0.004743	0.003193	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.03	No 13	0.006292	0.0008655	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.03	No 14	0.009036	0.007147	57.14	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.003	0.03	No 14	0.004029	0.003166	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.03	No 14	0.05085	0.03062	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.03	No 14	0.0067	0.005703	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0054	0.03	No 14	0.0066	0.002444	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0047	0.0037	0.03	No 14	0.004907	0.00293	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01331	0.00359	0.03	No 14	0.01191	0.01899	7.143	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0024	0.03	No 13	0.003808	0.003388	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01232	0.009904	0.03	No 14	0.01111	0.001708	7.143	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07581	0.05851	0.03	Yes 14	0.06716	0.01221	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1285	0.1075	0.03	Yes 14	0.118	0.01479	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.00831	0.003998	0.03	No 13	0.006285	0.003179	7.692	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0075	0.0045	0.03	No 13	0.006238	0.002831	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02951	0.02298	0.03	No 14	0.02624	0.004608	7.143	None	No	0.01	Param.
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No 4	0.0001775	0.000045	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	DGWC-10	0.0002	0.00008	0.002	No 13	0.0001632	0.00005767	69.23	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00006	0.002	No 13	0.0001685	0.00006026	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00006	0.002	No 15	0.0001511	0.00006562	60	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No 13	0.0001815	0.00004525	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No 14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No 14	0.00019	0.00003742	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No 14	0.0001443	0.00006413	50	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No 14	0.00017	0.00006051	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No 14	0.0002052	0.0001354	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No 14	0.000175	0.00004973	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No 14	0.000155	0.00006454	64.29	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No 14	0.0001718	0.0000571	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002069	0.0001323	0.002	No 14	0.0001907	0.0000554	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.000082	0.002	No 13	0.0002117	0.000122	76.92	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No 14	0.0001886	0.00004276	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No 14	0.00019	0.00003742	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002	0.000094	0.002	No 13	0.0001842	0.000118	15.38	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-8	0.0002	0.00006	0.002	No 13	0.0001455	0.00006393	53.85	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No 14	0.0001916	0.0000896	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02721	0.01333	0.041	No 13	0.02027	0.009331	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.041	No 14	0.005293	0.004249	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01127	0.006572	0.041	No 14	0.008921	0.003316	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007424	0.004715	0.041	No 13	0.006069	0.001821	7.692	None	No	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No 5	0.00434	0.001476	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-82	0.002418	0.001282	0.05	No 4	0.003425	0.00183	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-83	0.0317	0.001397	0.05	No 4	0.01655	0.006674	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-10	0.05457	0.02102	0.05	No 13	0.03779	0.02256	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.01	0.0017	0.05	No 15	0.00386	0.002327	53.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004566	0.001865	0.05	No 13	0.004177	0.002488	23.08	Kaplan-Meier	No	0.01	Param.

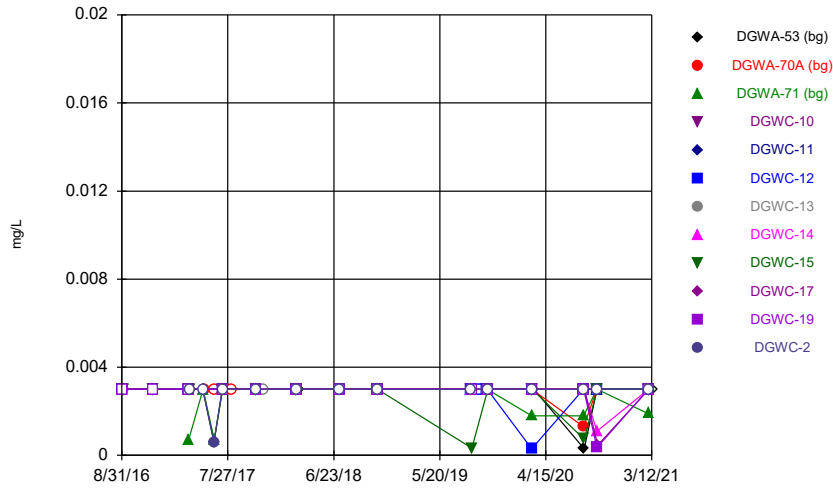
State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	14	0.004407	0.002227	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	14	0.005129	0.001641	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009481	0.006361	0.05	No	14	0.008014	0.002436	14.29	None	x ^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.009002	0.005583	0.05	No	14	0.007293	0.002414	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0046	0.05	No	14	0.005343	0.0015	50	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06981	0.03422	0.05	No	14	0.05201	0.02512	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	14	0.004764	0.000882	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	13	0.004723	0.0009985	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01358	0.005492	0.05	No	14	0.009536	0.005709	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008378	0.003779	0.05	No	14	0.006079	0.003247	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.04987	0.00968	0.05	No	13	0.03438	0.04333	7.692	None	x ^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.004333	0.002103	0.05	No	13	0.004554	0.002228	46.15	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.136	0.05177	0.05	Yes	14	0.0939	0.05947	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	4	0.0005523	0.000517	50	None	No	0.0625	NP (normality)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	4	0.000768	0.000464	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	13	0.0005077	0.0002284	15.38	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	15	0.0005778	0.0004673	53.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00015	0.002	No	14	0.000355	0.00035	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	14	0.0005429	0.0001435	7.143	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.001122	0.0005097	0.002	No	14	0.0009721	0.000504	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	14	0.0006667	0.000464	64.29	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	13	0.0009287	0.0002571	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	14	0.0007385	0.0004291	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	14	0.0003507	0.0002785	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	14	0.0006719	0.0004569	64.29	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.000078	0.002	No	13	0.0007954	0.00039	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	13	0.0004038	0.0003442	23.08	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.0006127	0.0004368	0.002	No	14	0.0007243	0.0002381	35.71	Kaplan-Meier	sqrt(x)	0.01	Param.

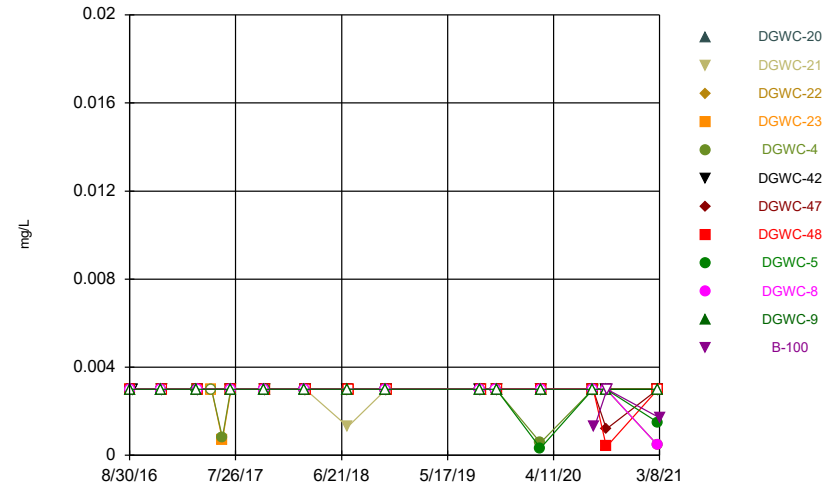
FIGURE A.

Time Series



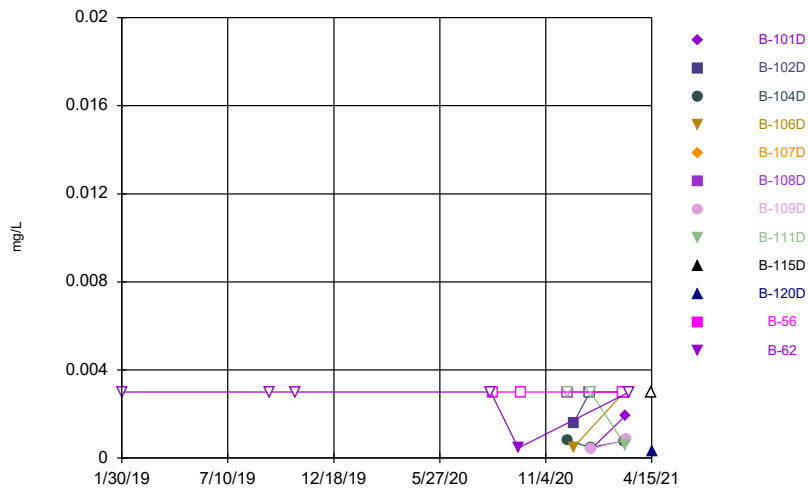
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



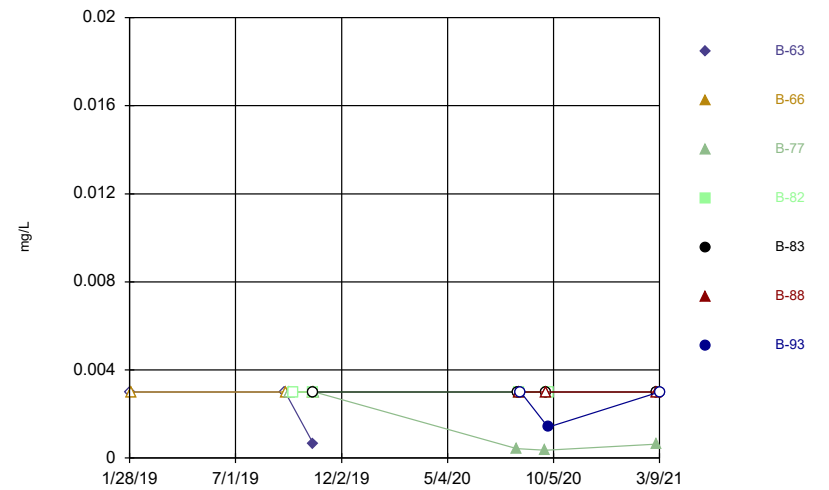
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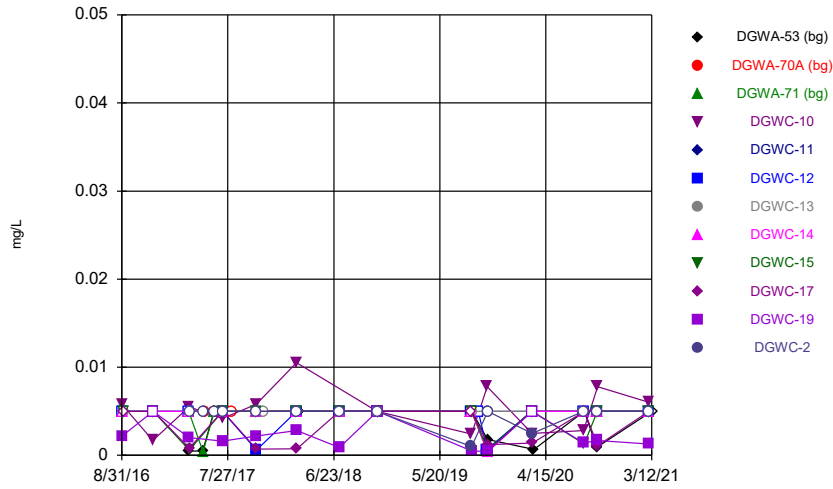
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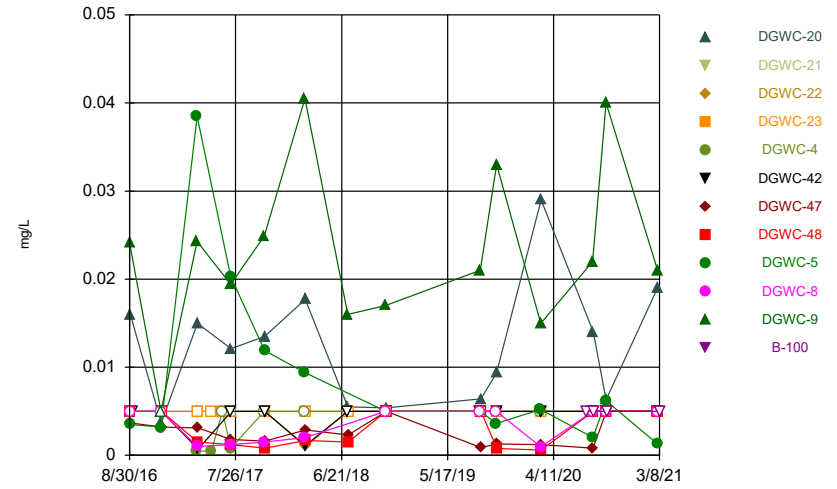
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Time Series



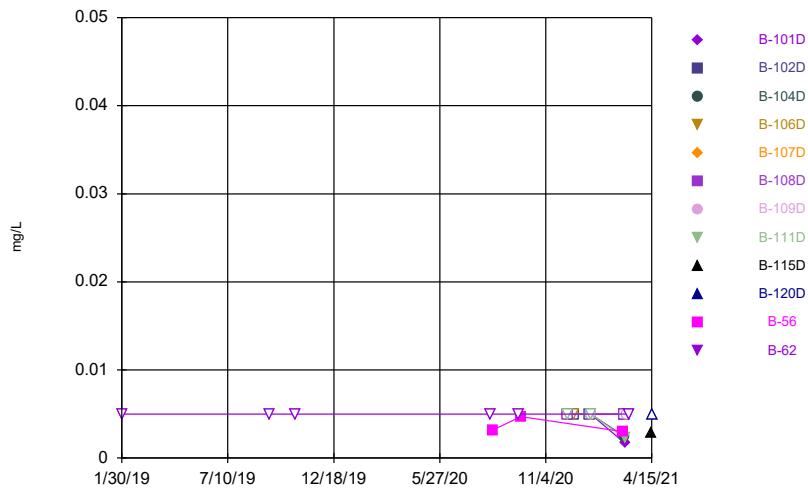
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Time Series



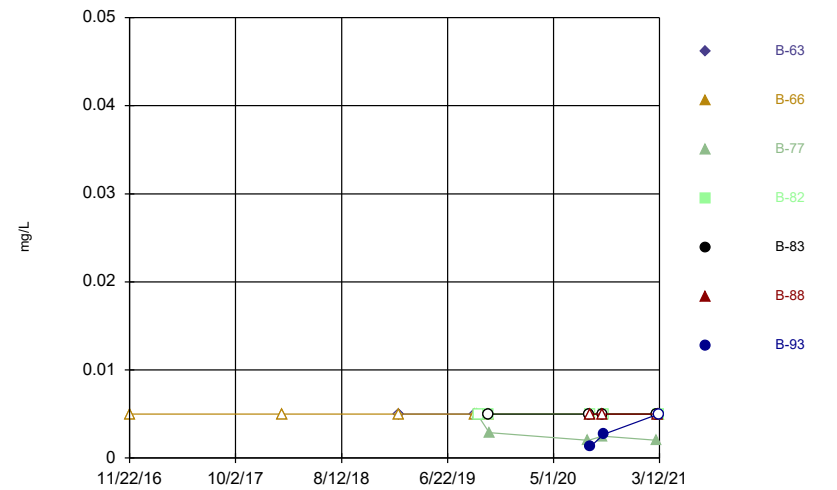
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Time Series



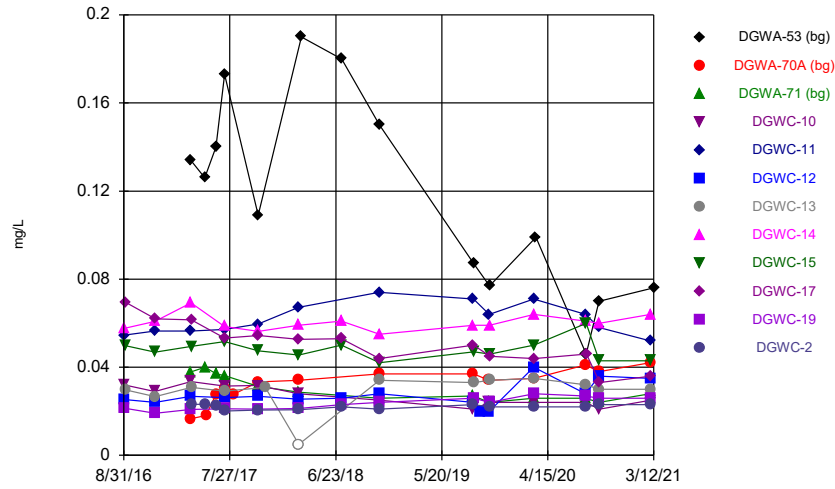
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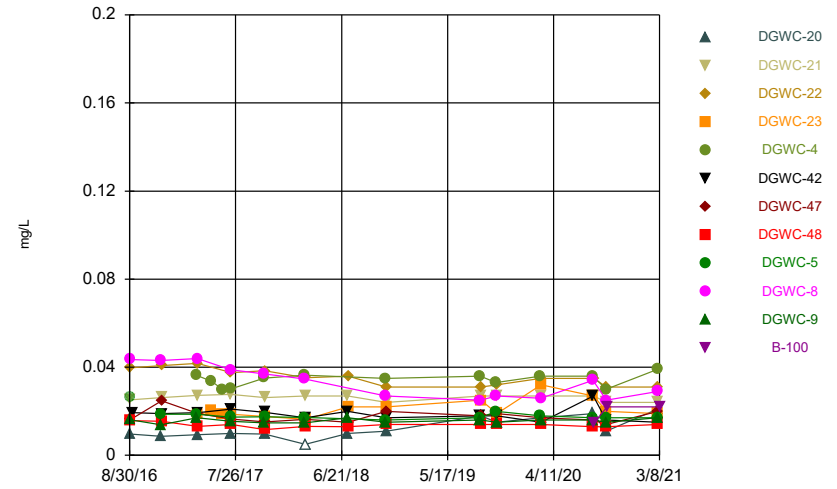
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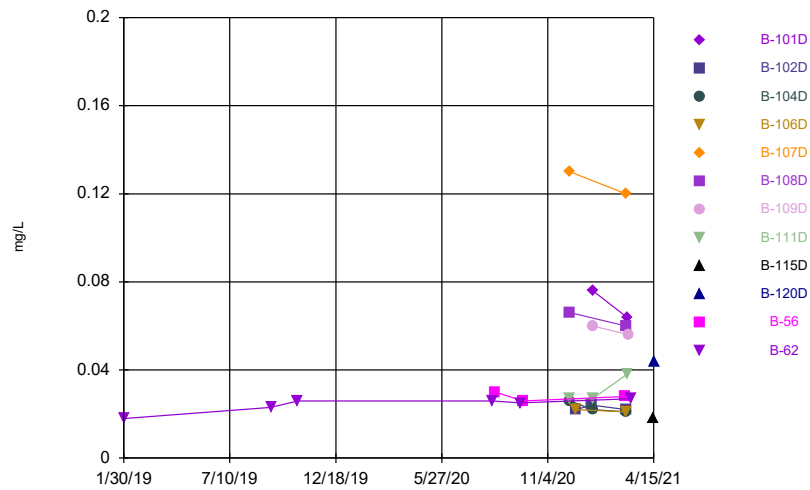
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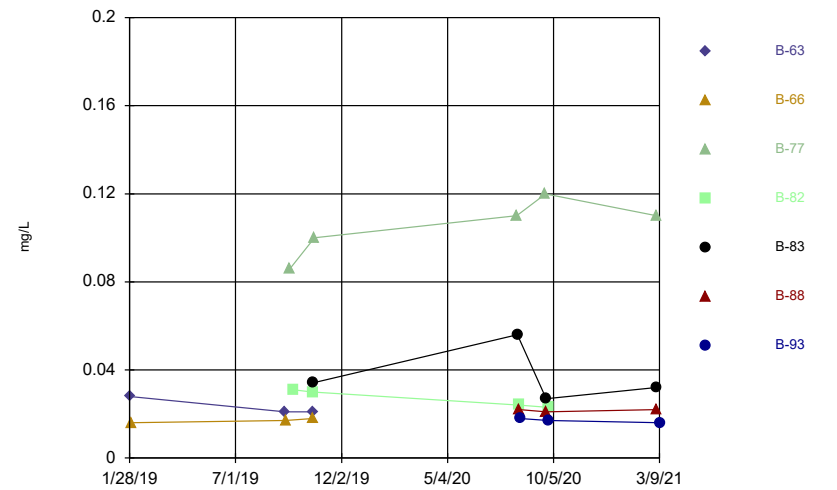
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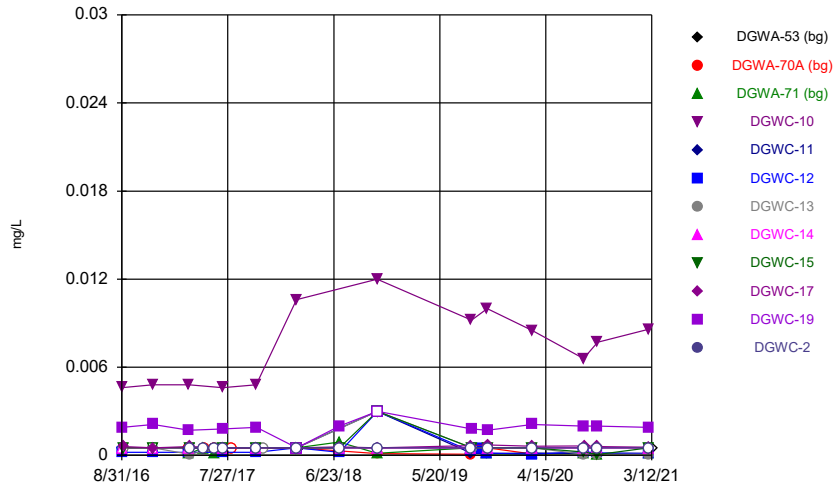
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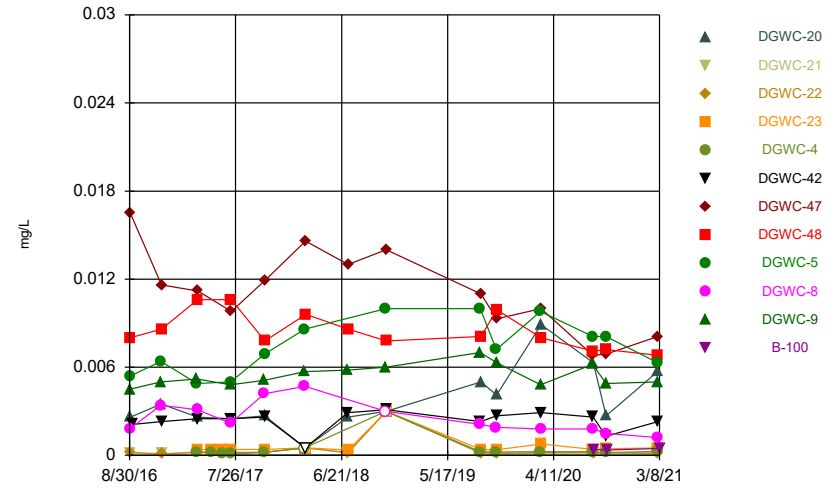
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



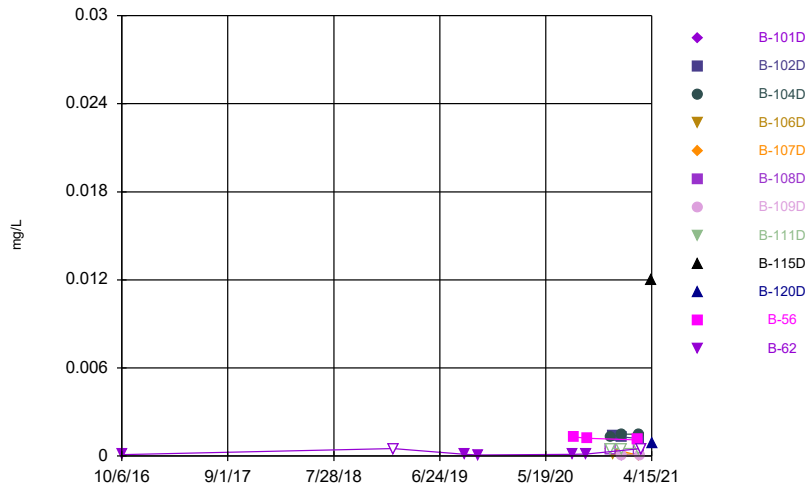
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



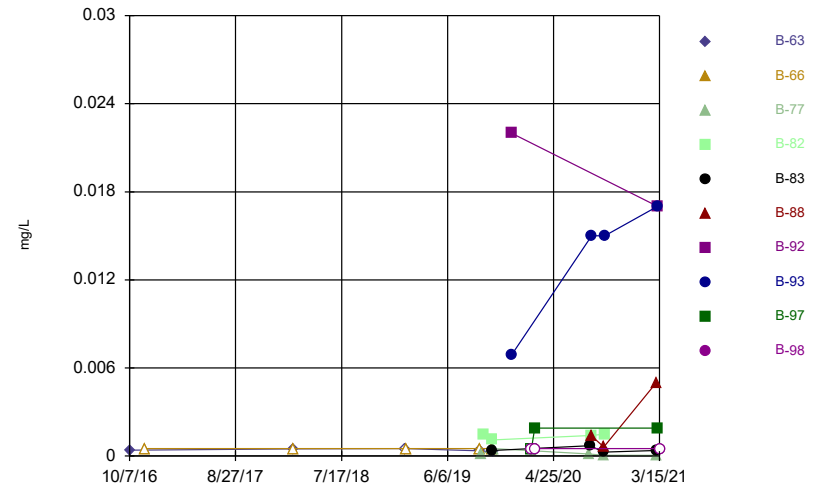
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



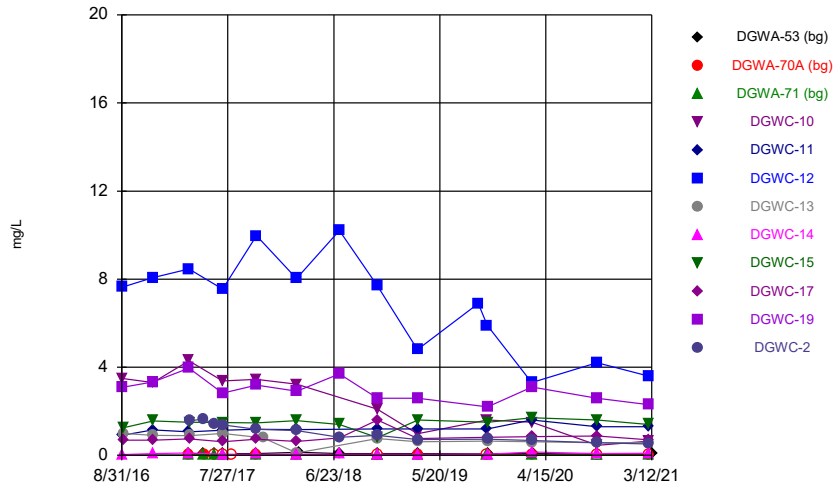
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



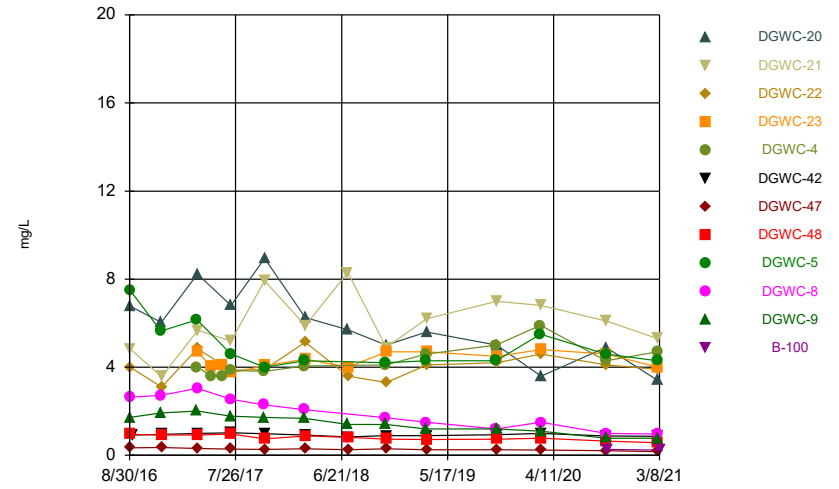
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



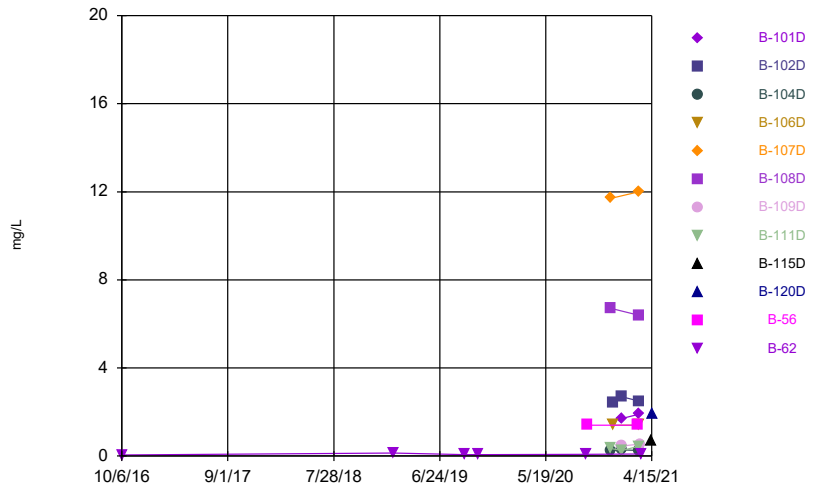
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



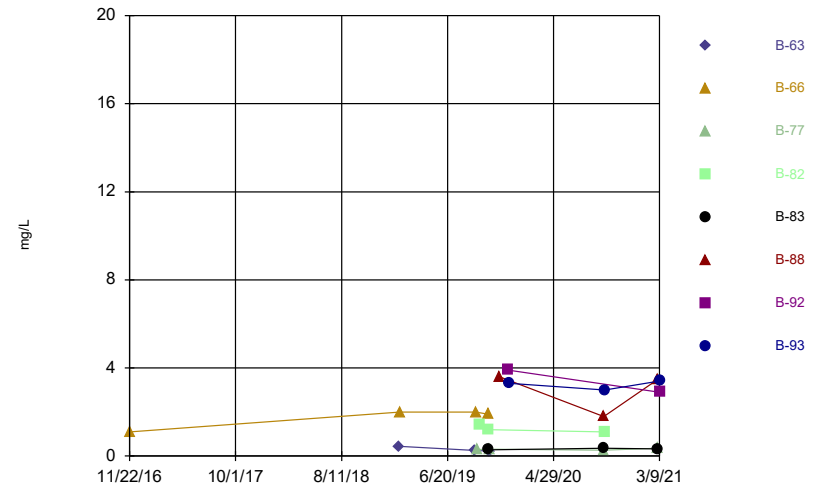
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



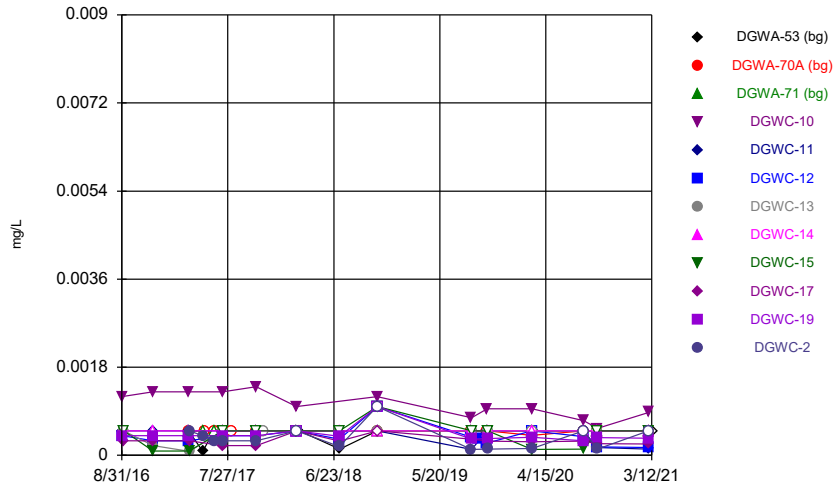
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



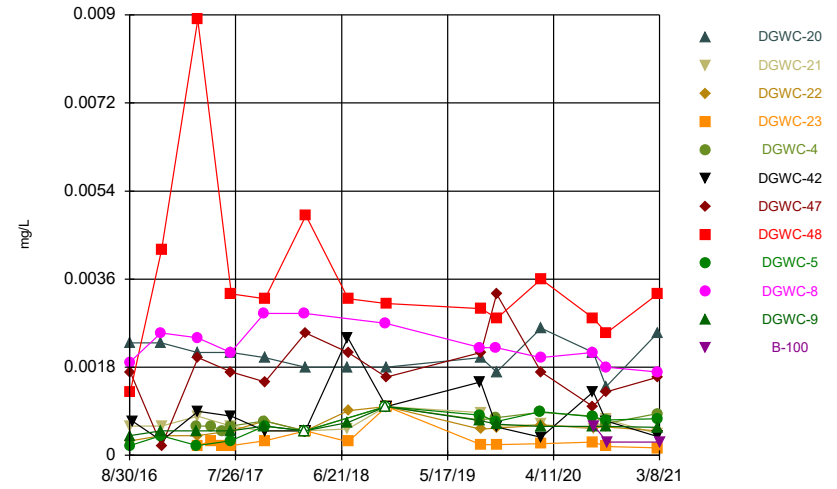
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



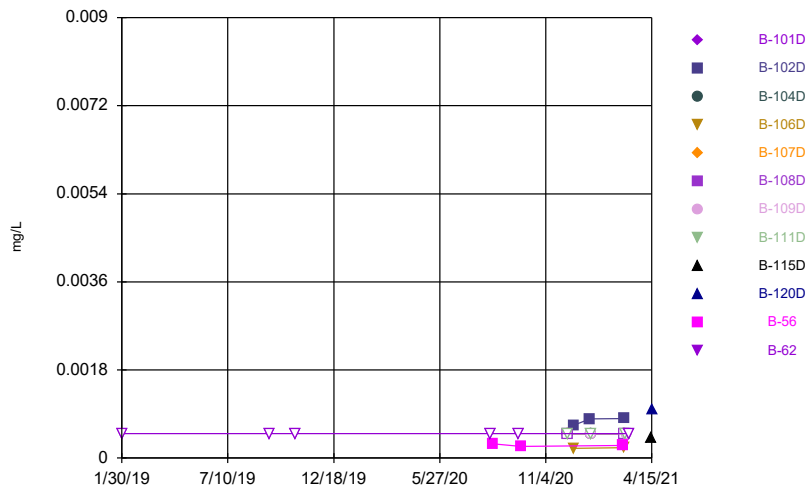
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



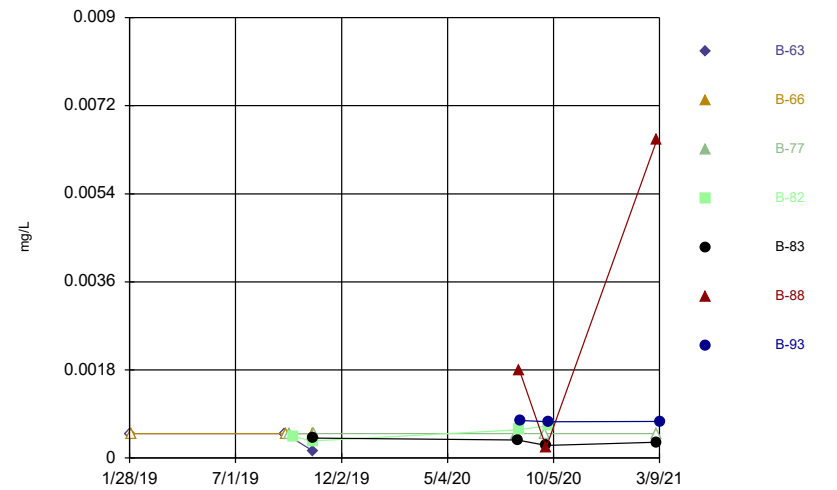
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



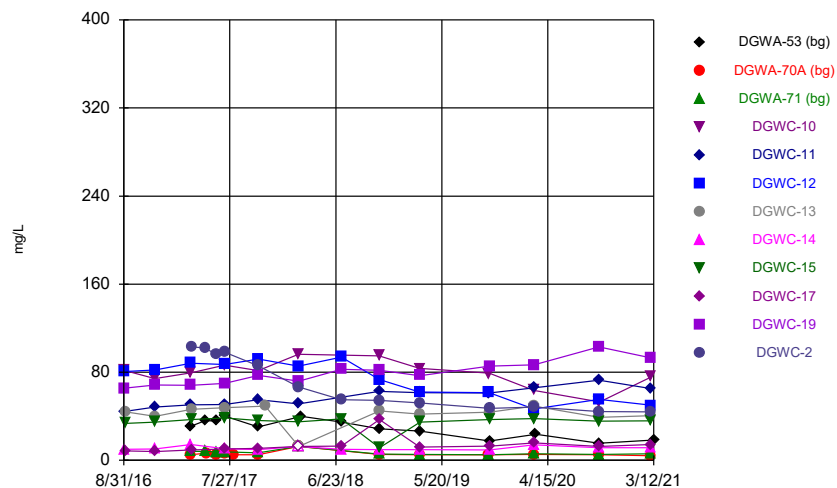
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



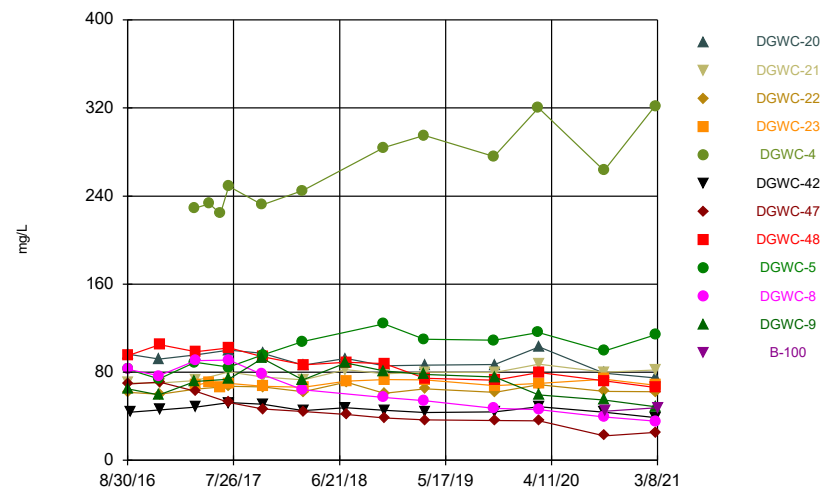
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



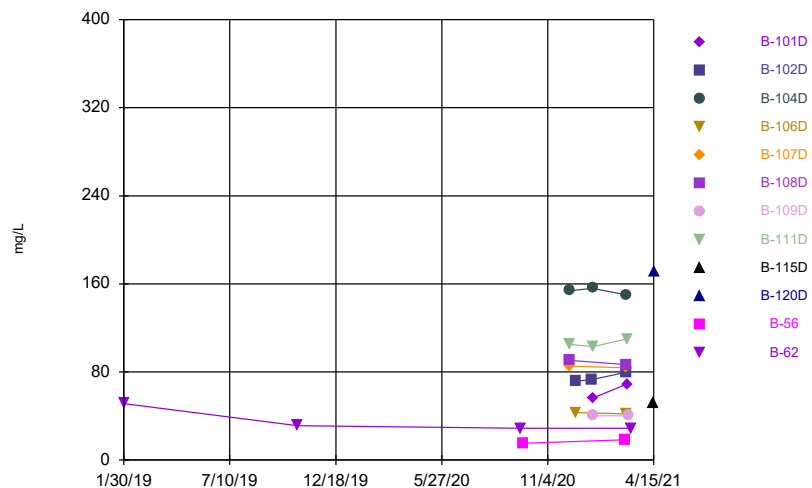
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



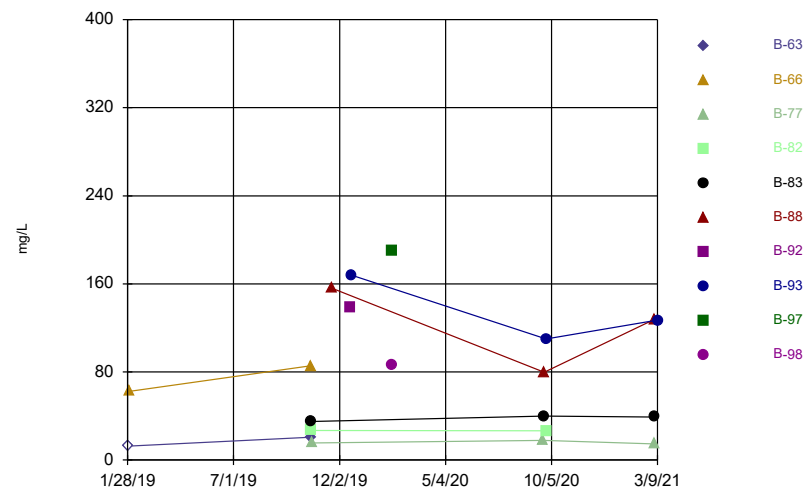
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



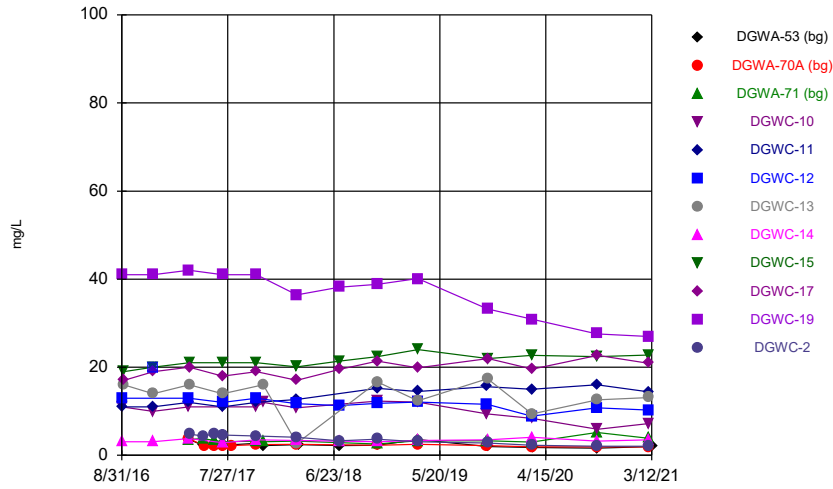
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Time Series



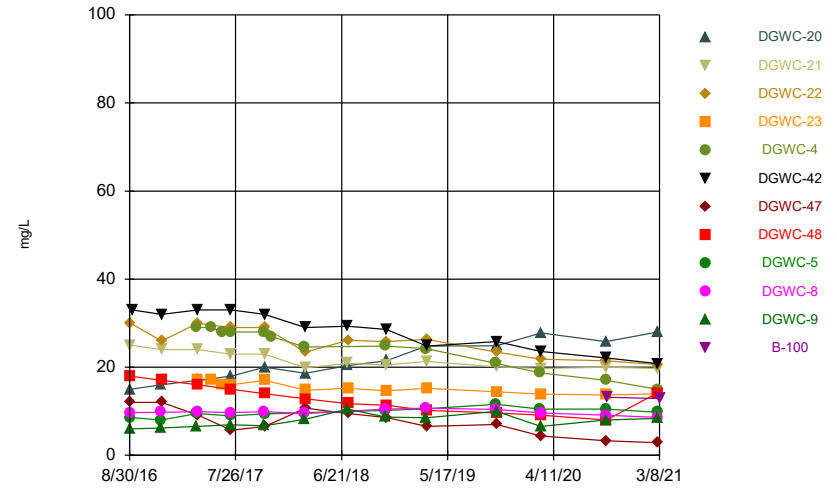
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Time Series



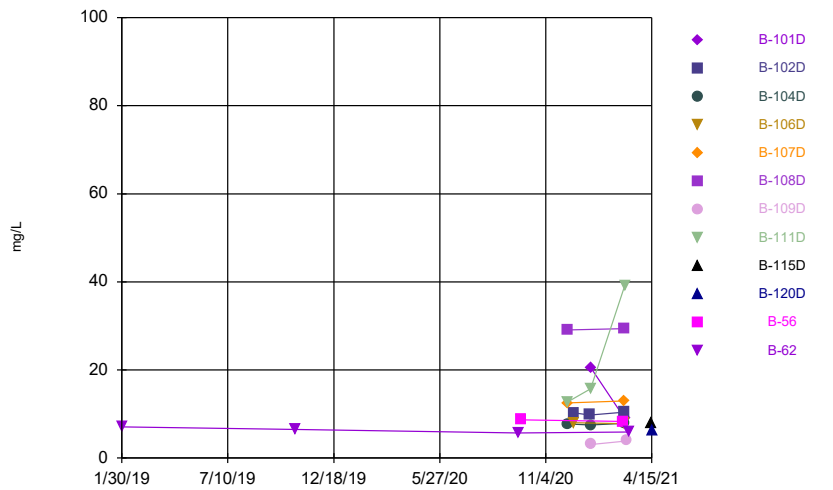
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Time Series



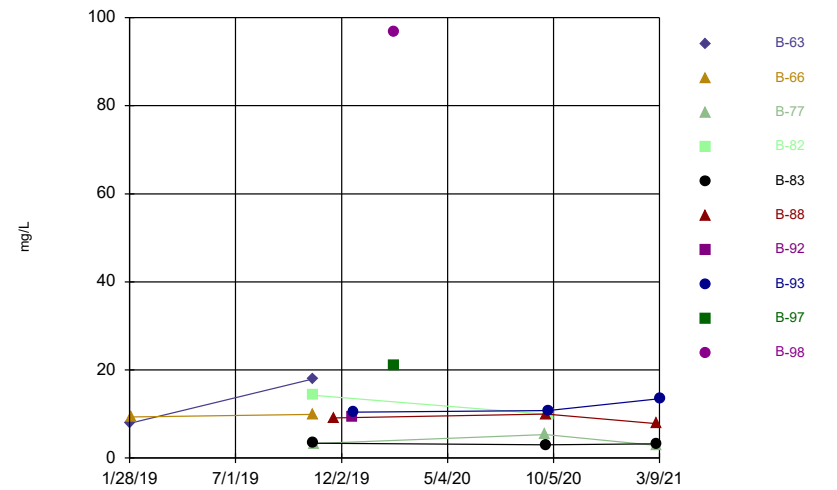
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



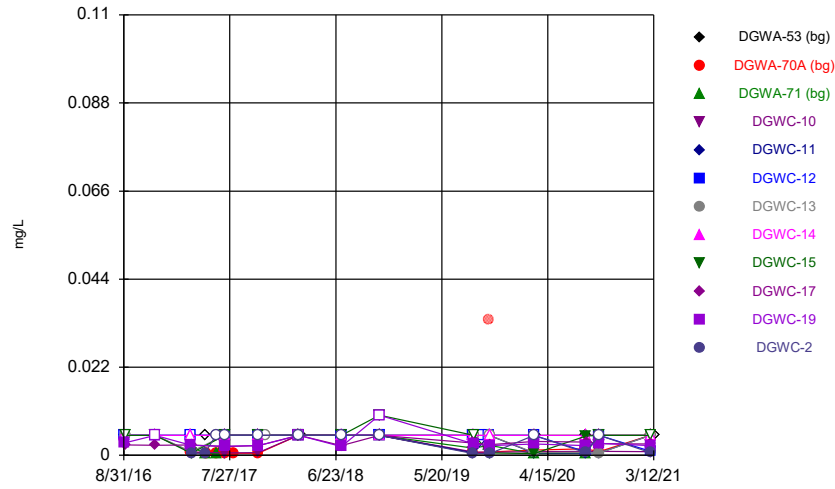
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



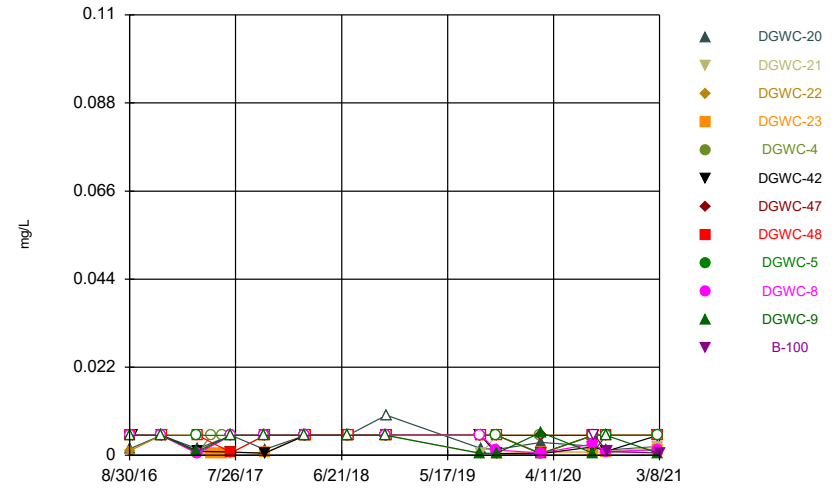
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



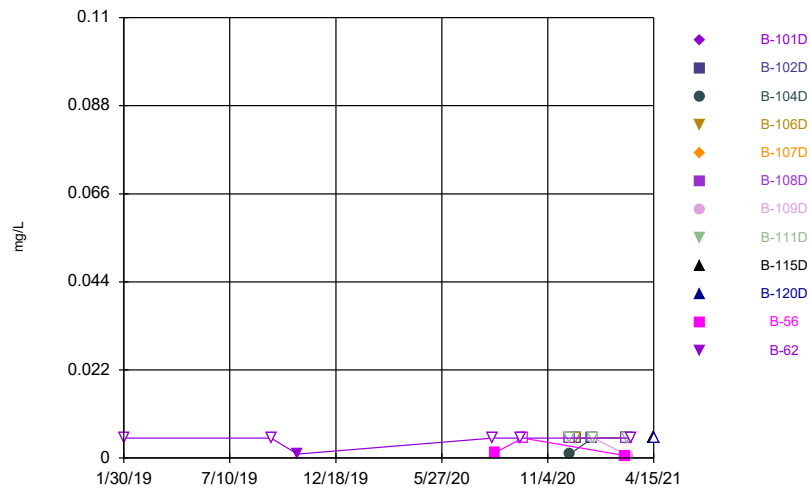
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



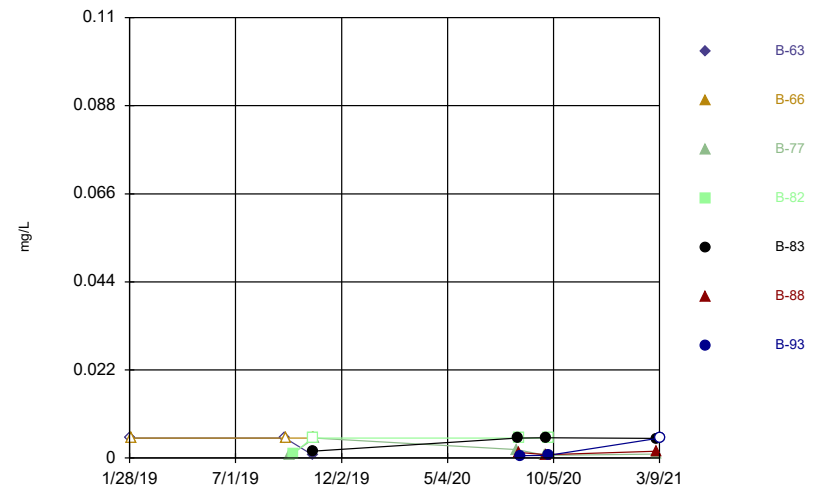
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



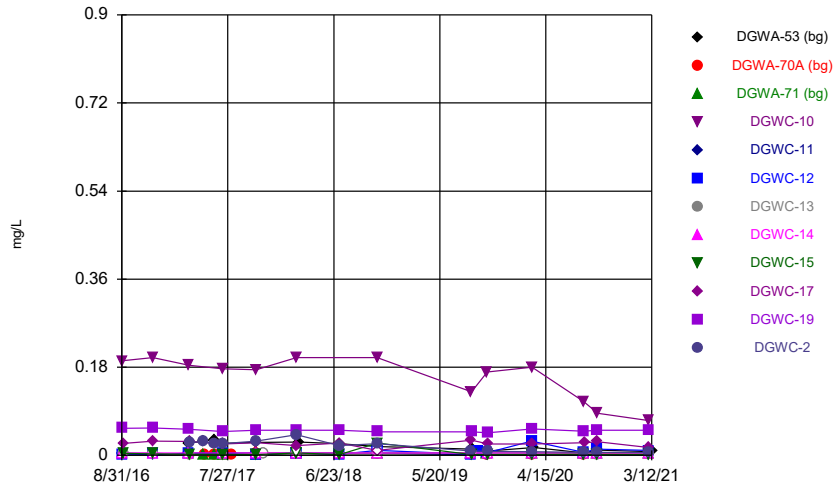
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



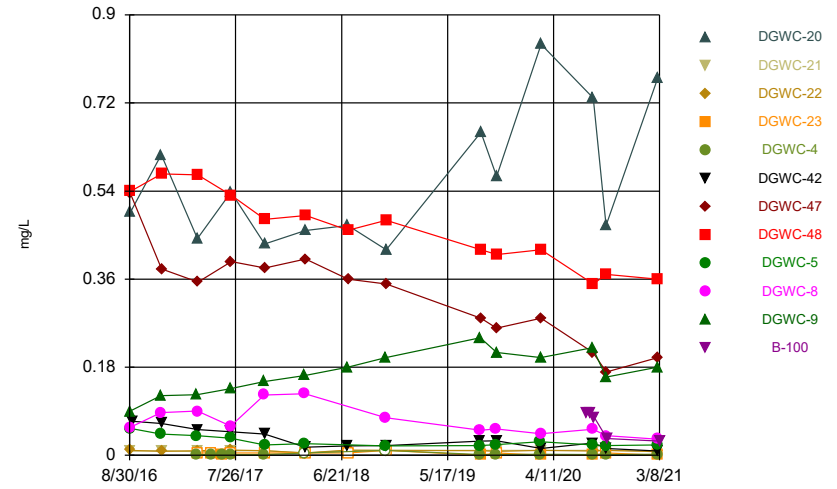
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



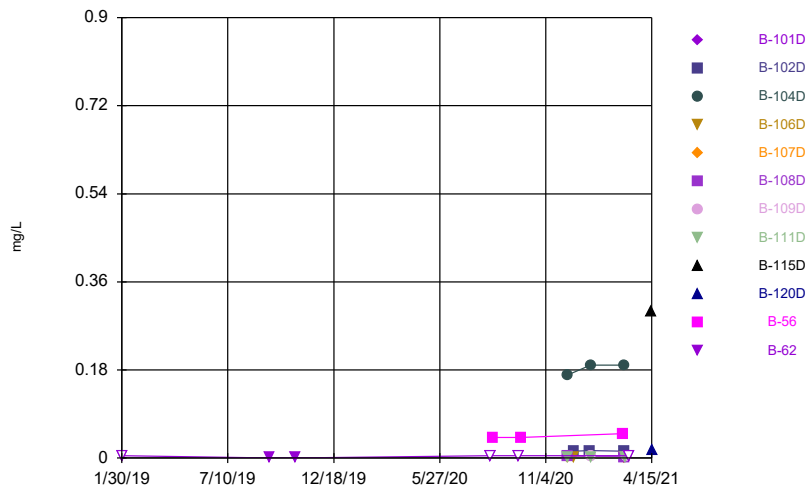
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



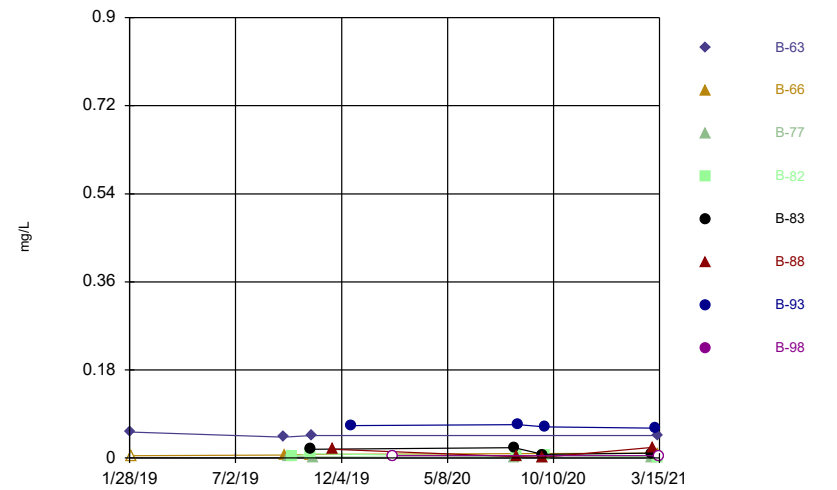
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



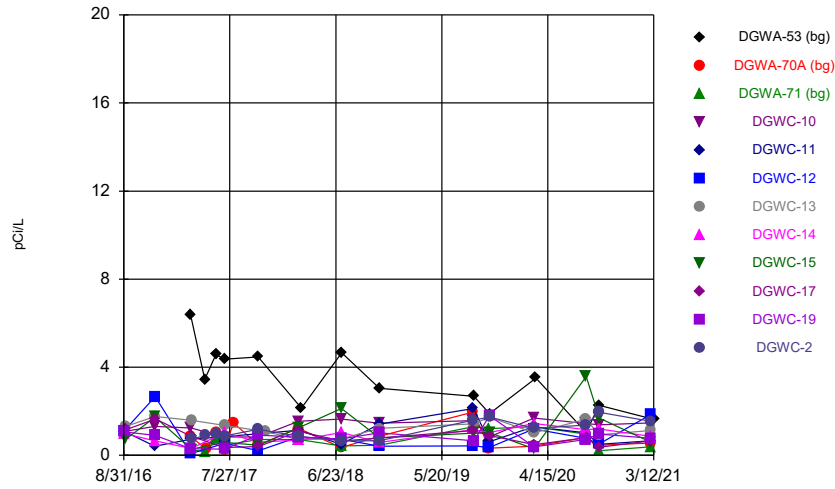
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Time Series



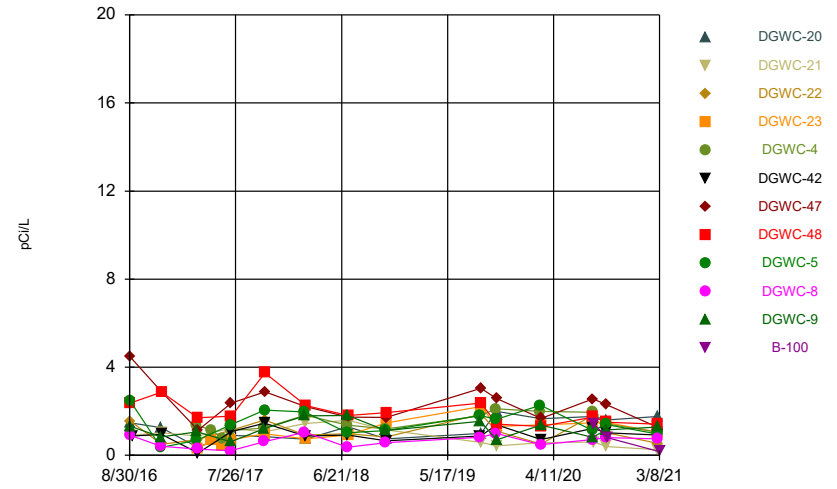
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



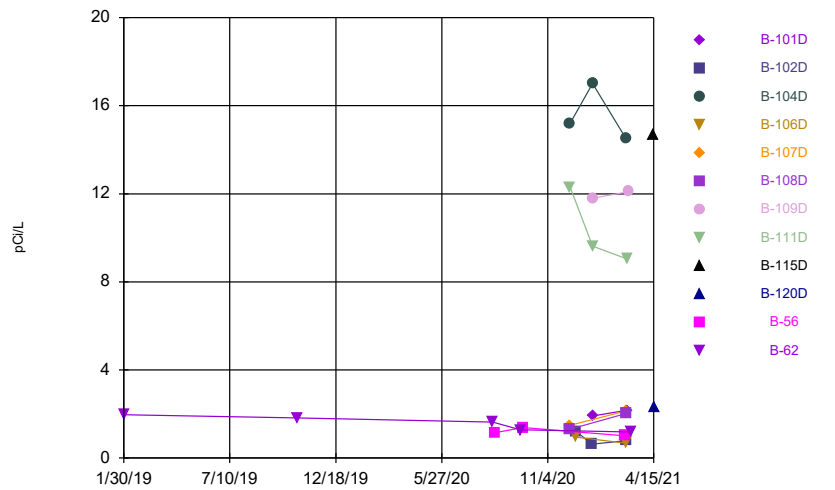
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



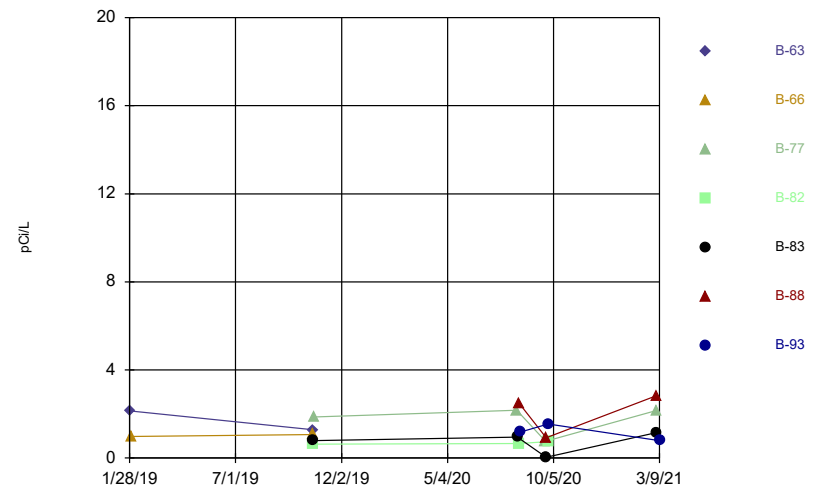
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



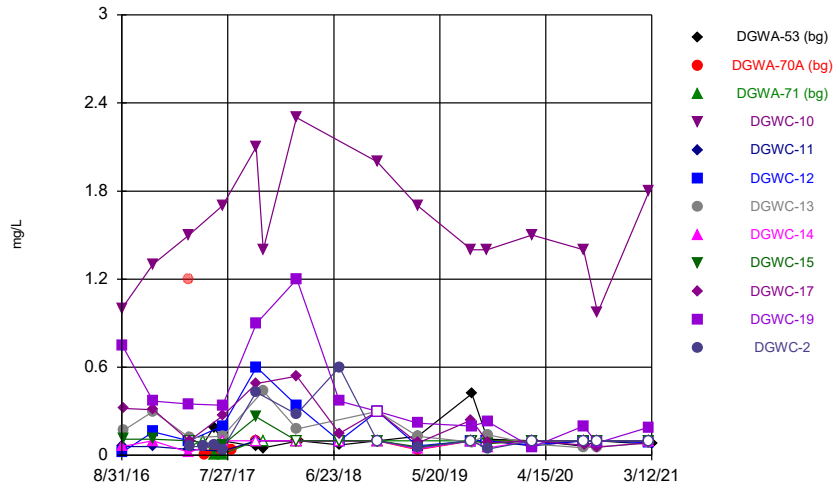
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



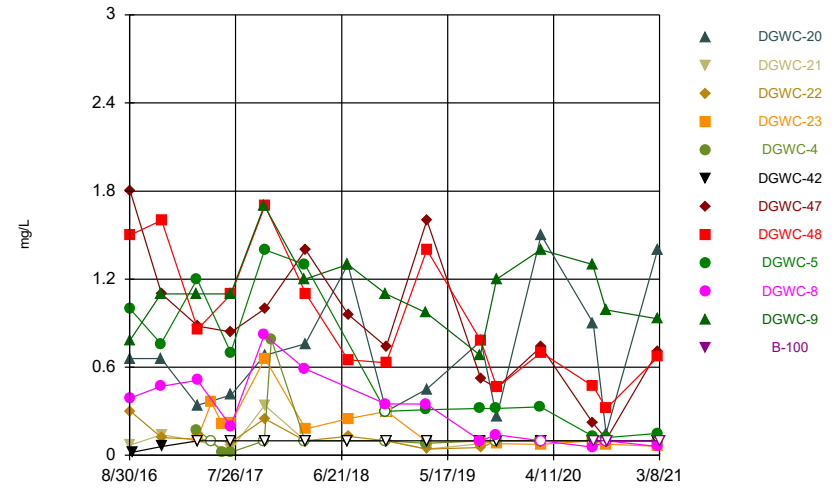
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



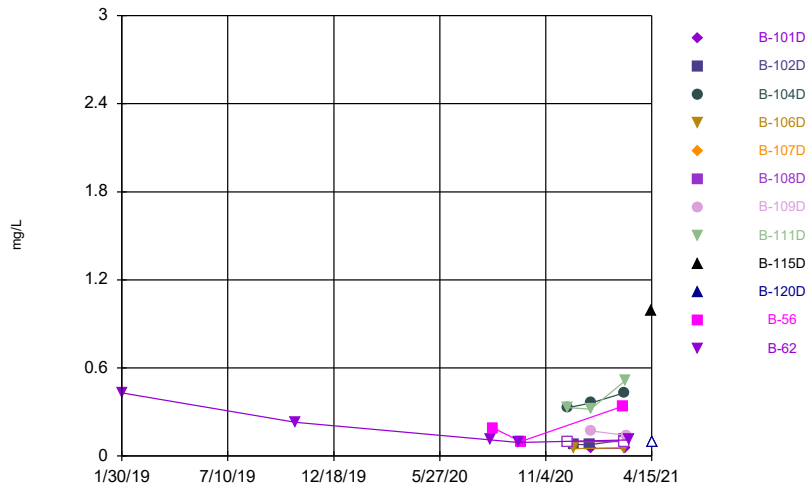
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



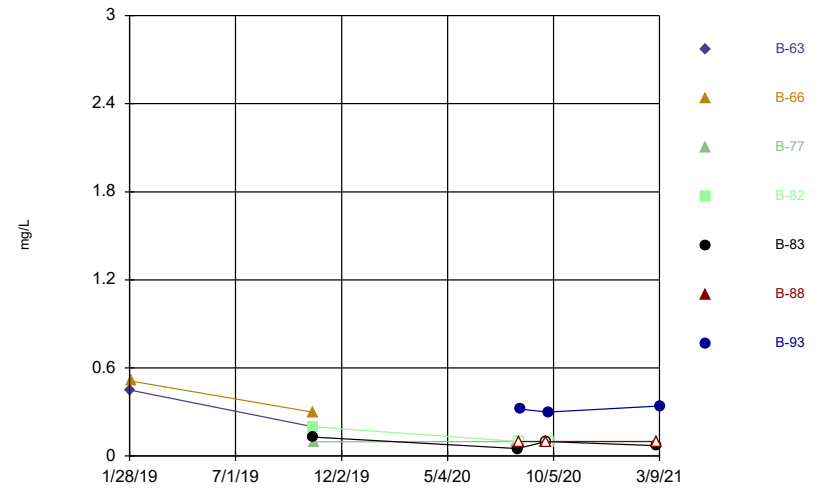
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Time Series



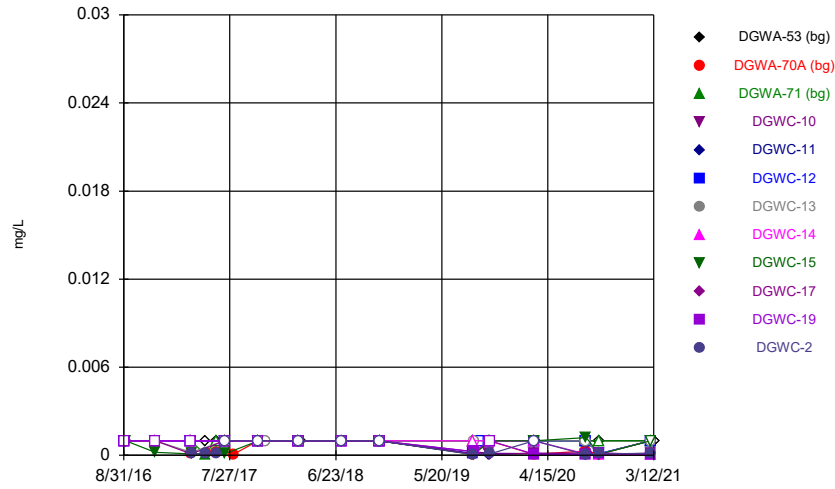
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Time Series



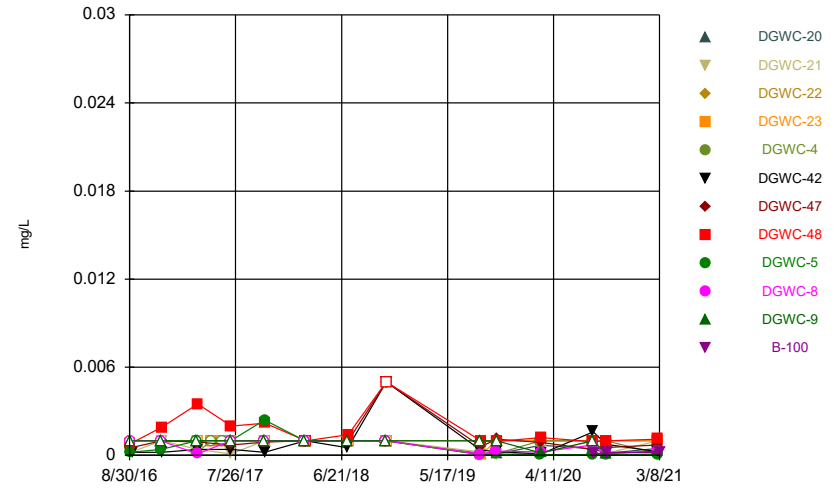
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Time Series



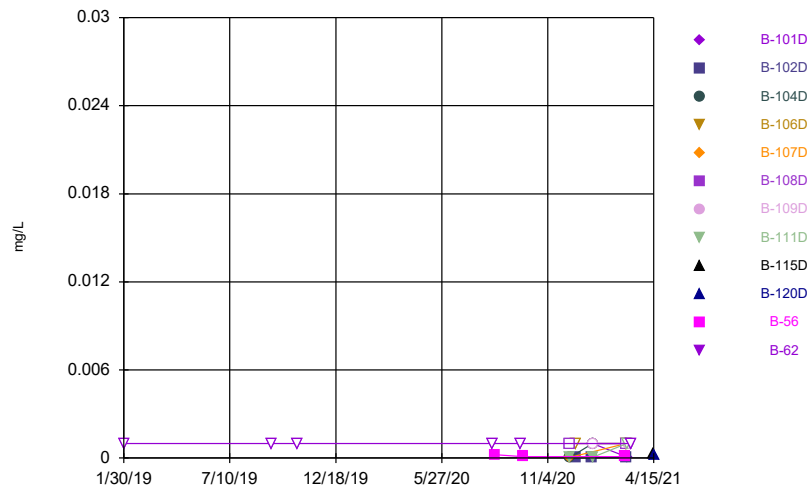
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Time Series



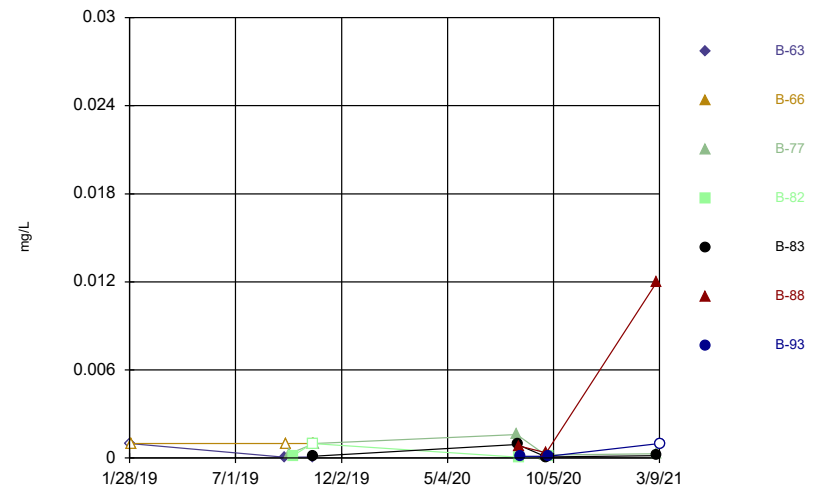
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



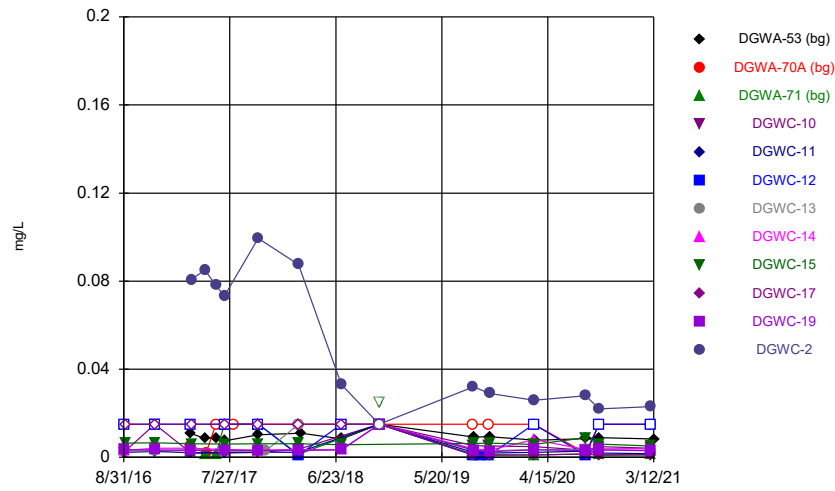
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Time Series



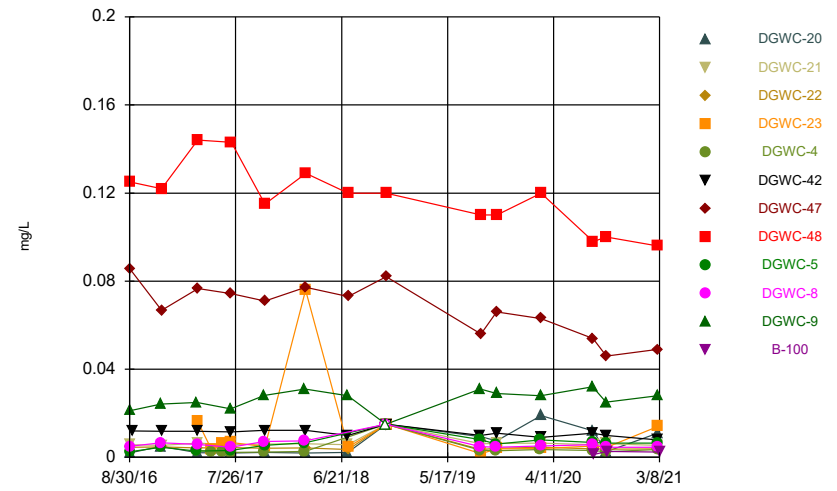
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



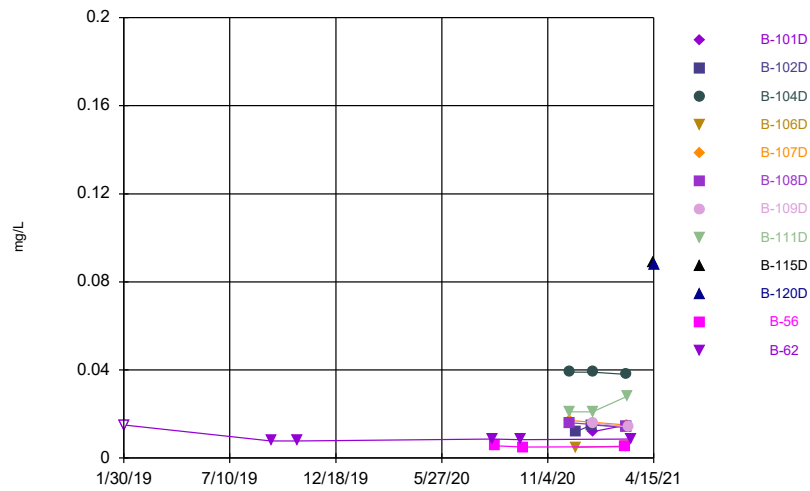
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



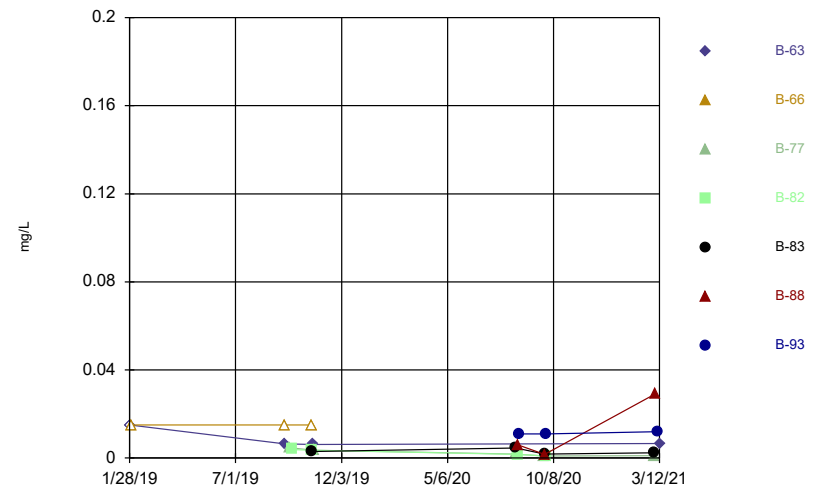
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



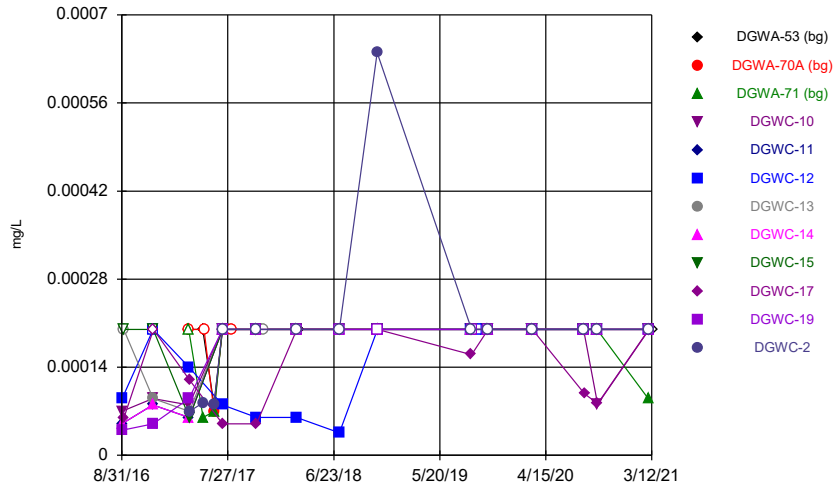
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Time Series



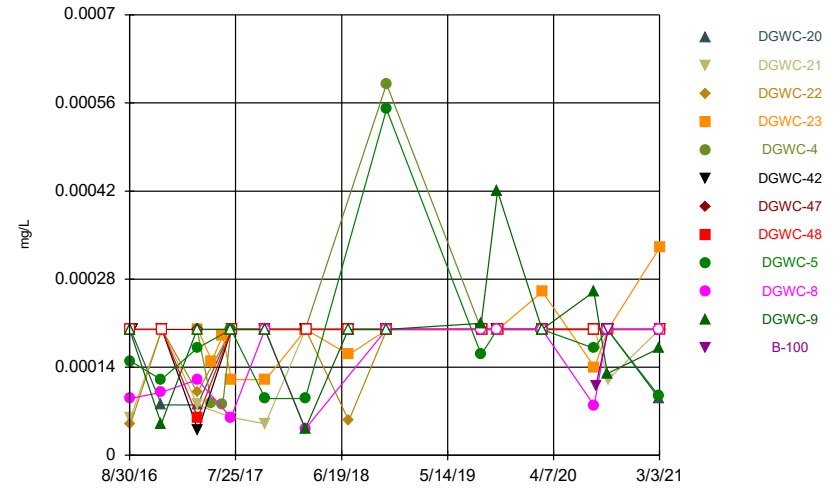
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Time Series



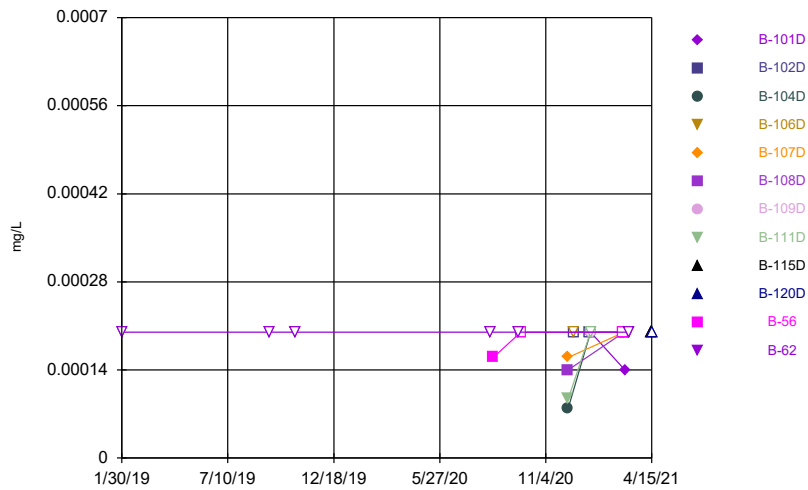
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



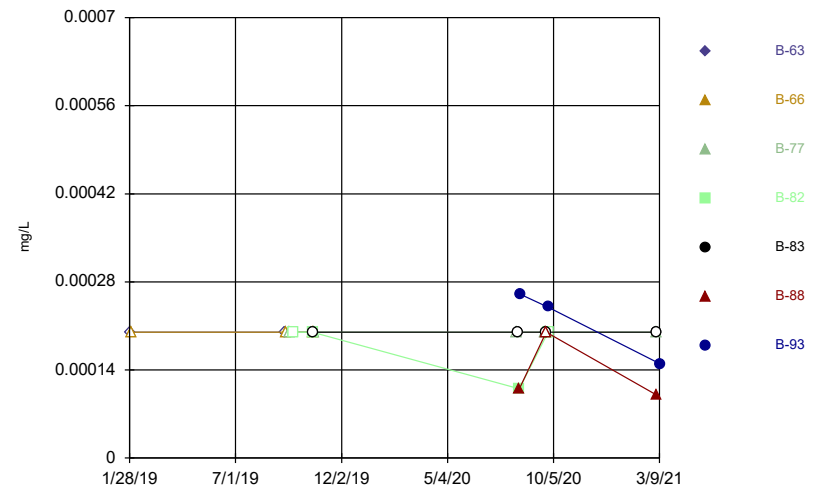
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



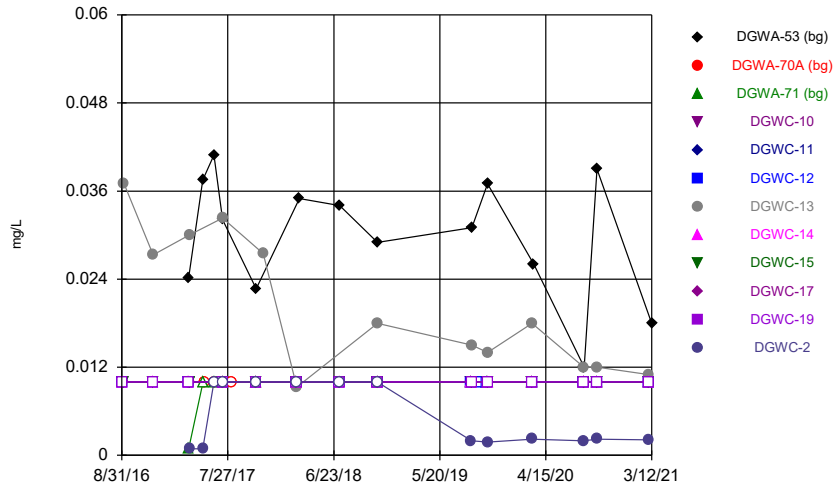
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



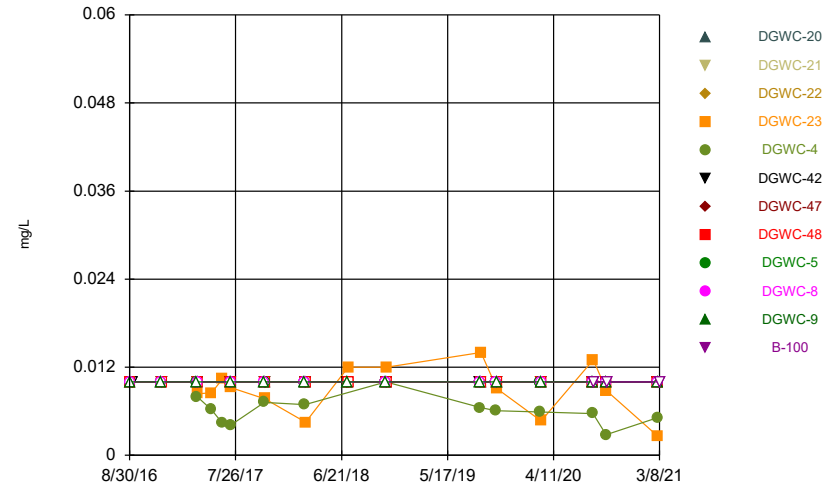
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



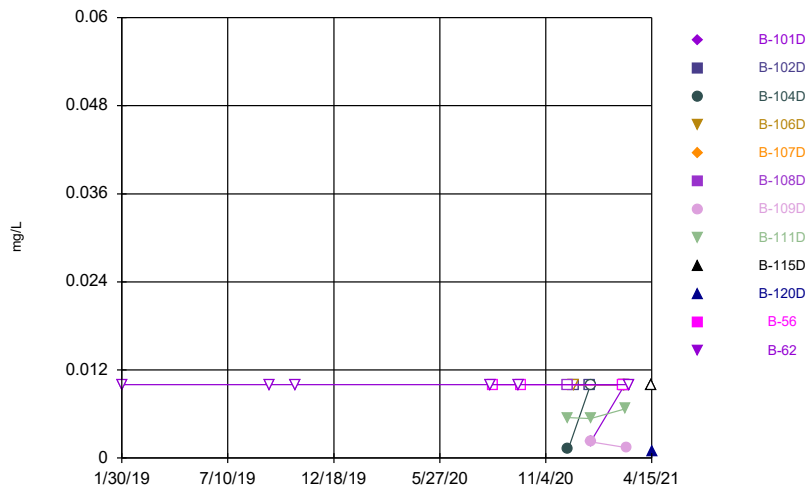
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Time Series



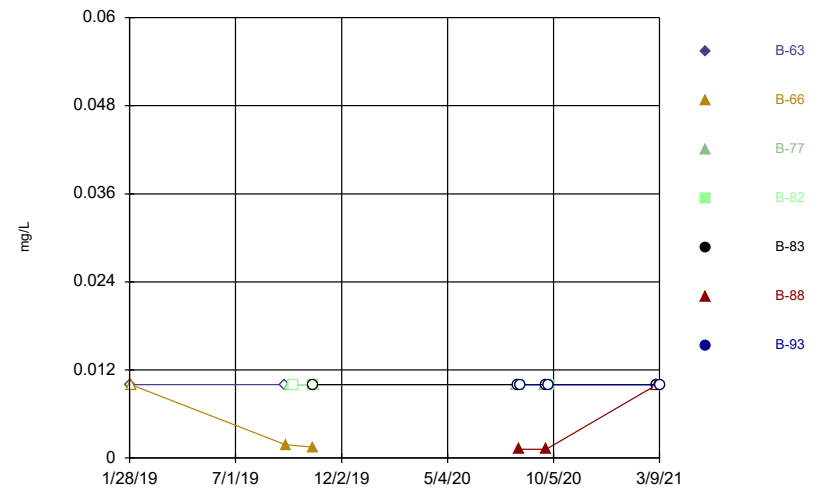
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Time Series



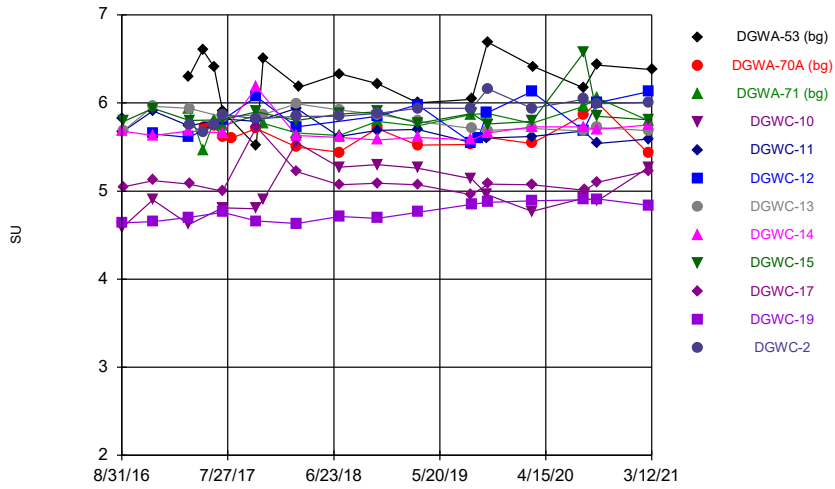
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Time Series



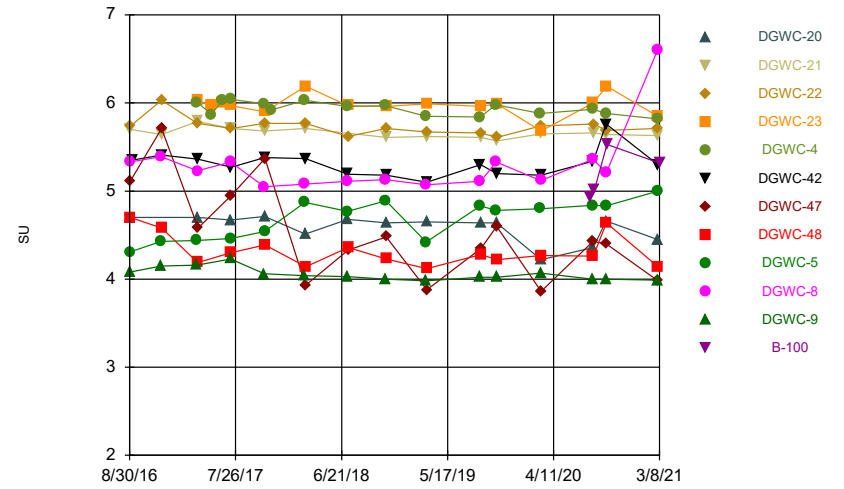
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Time Series



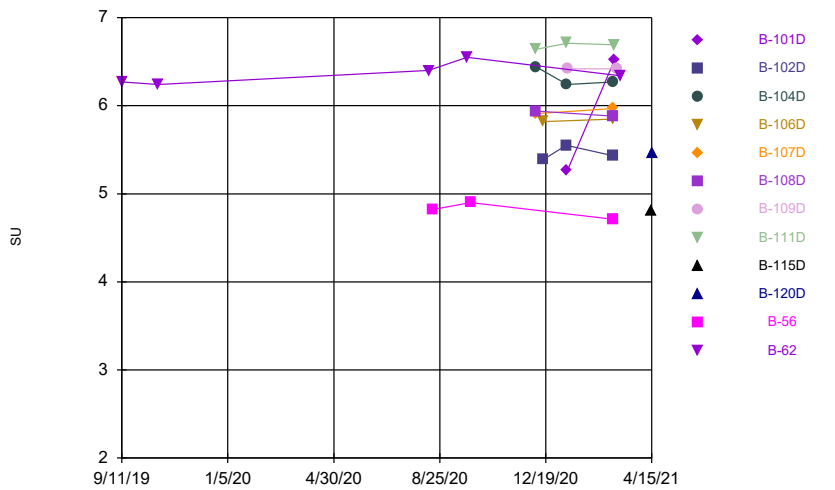
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Time Series



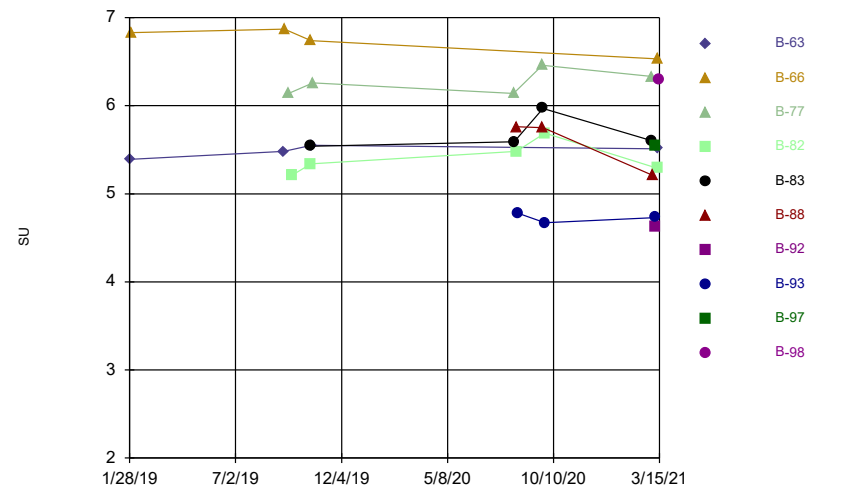
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Time Series



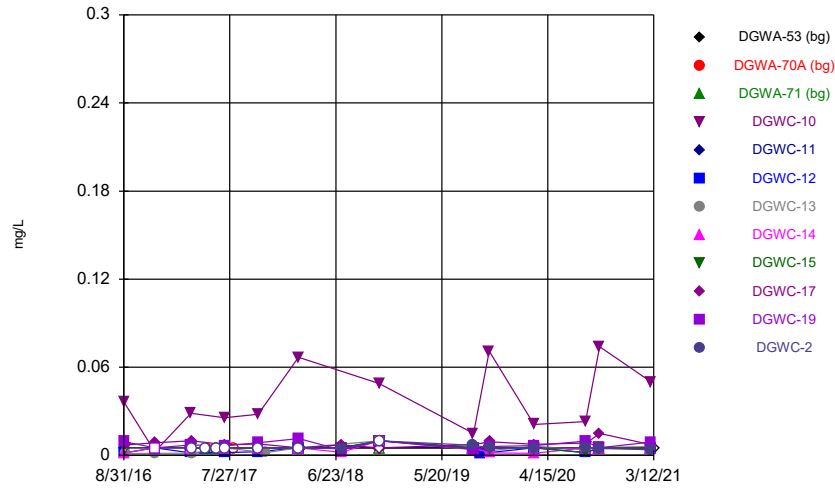
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



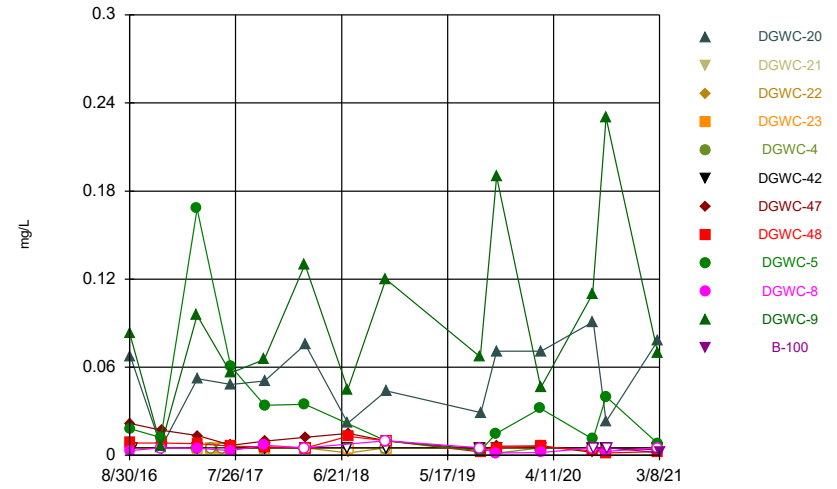
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



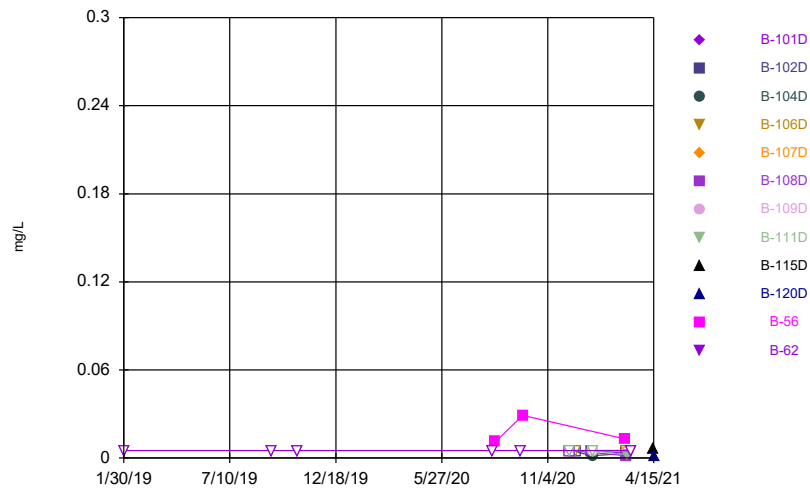
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



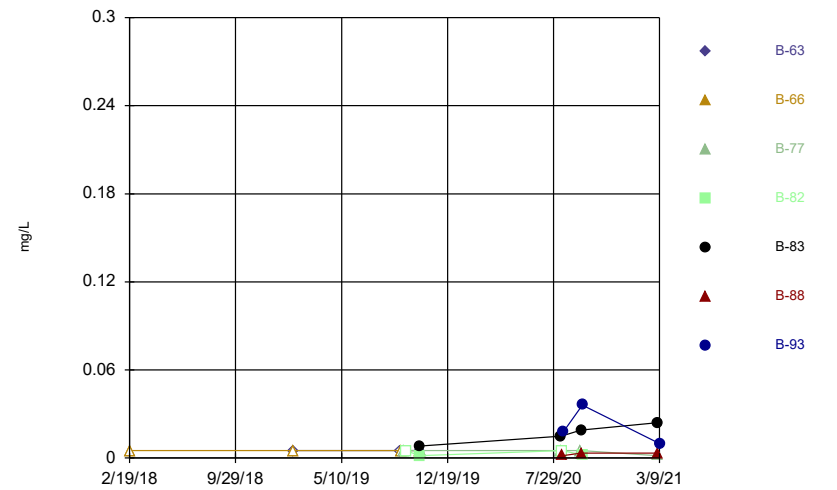
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Time Series



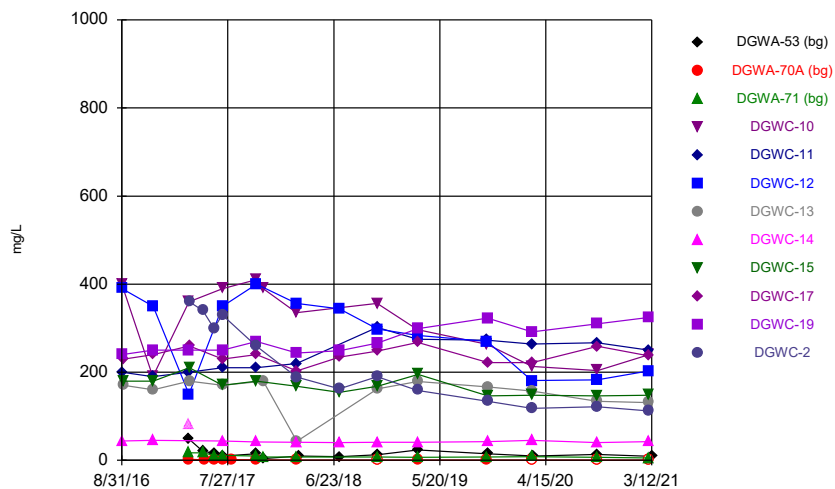
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Time Series



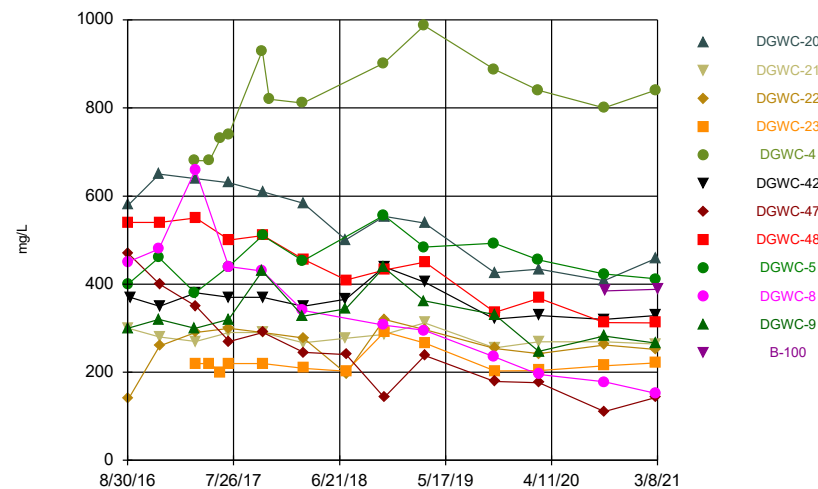
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Time Series



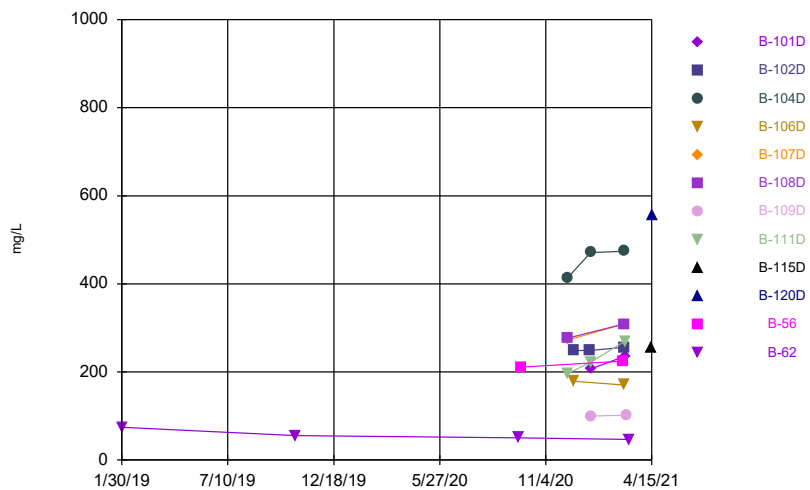
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Time Series



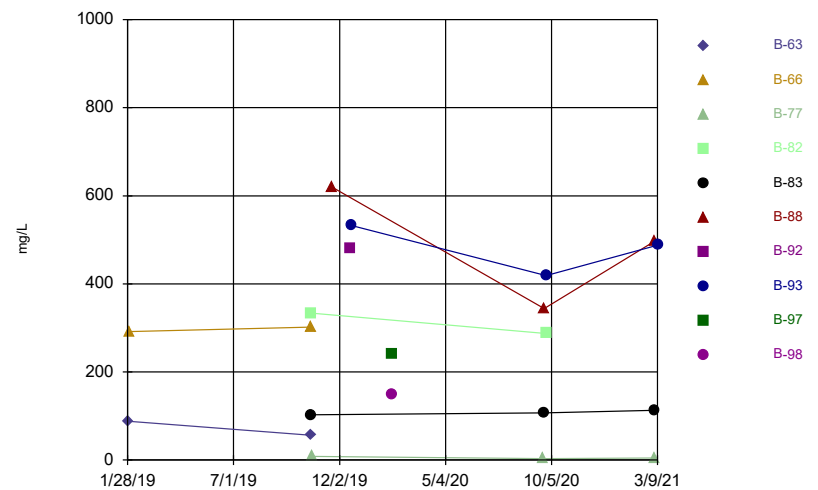
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Time Series



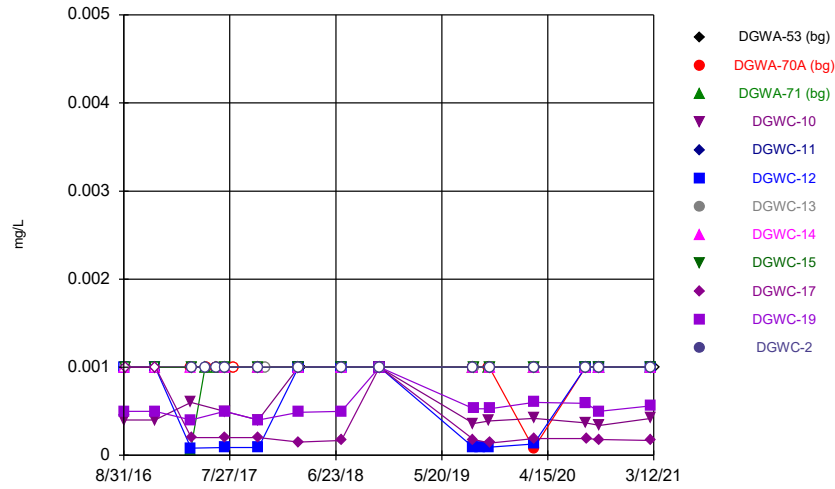
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



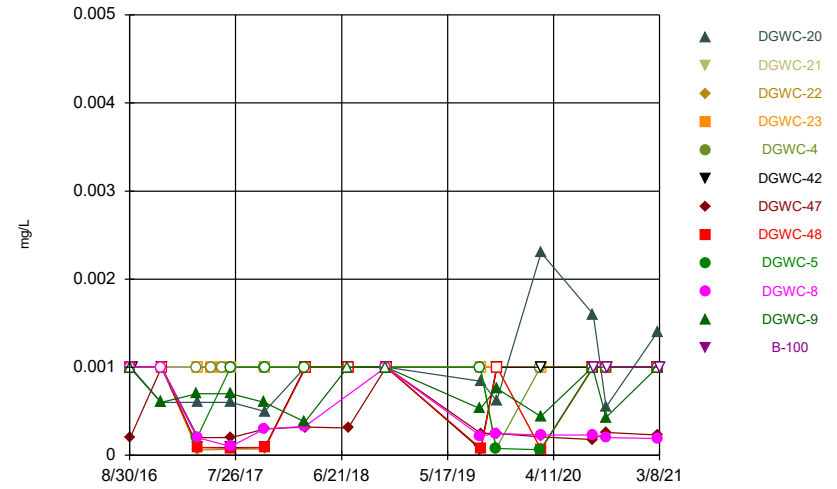
Constituent: Sulfate as SO4 Analysis Run 7/7/2021 11:14 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



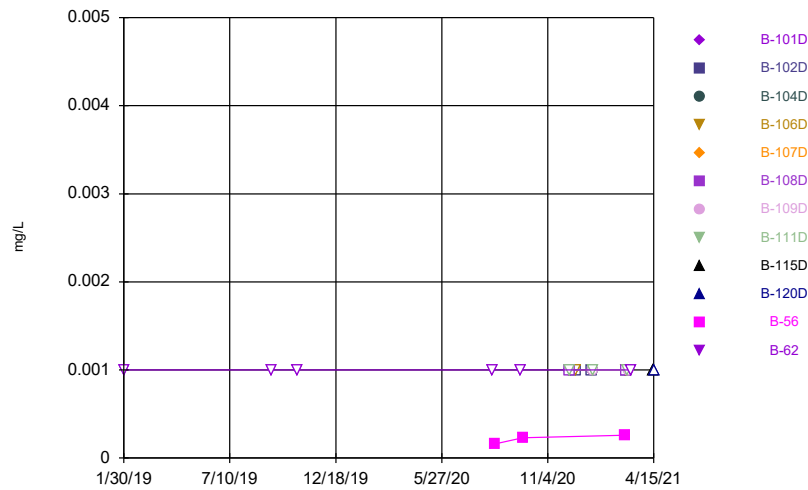
Constituent: Thallium Analysis Run 7/7/2021 11:14 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



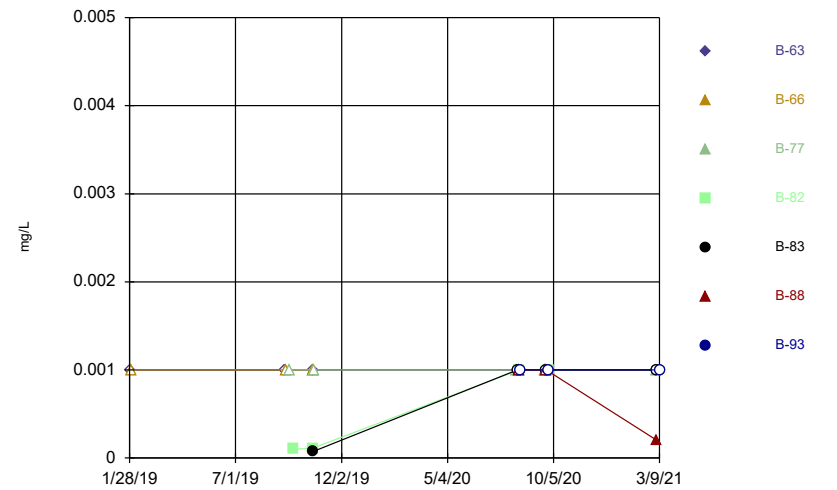
Constituent: Thallium Analysis Run 7/7/2021 11:14 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



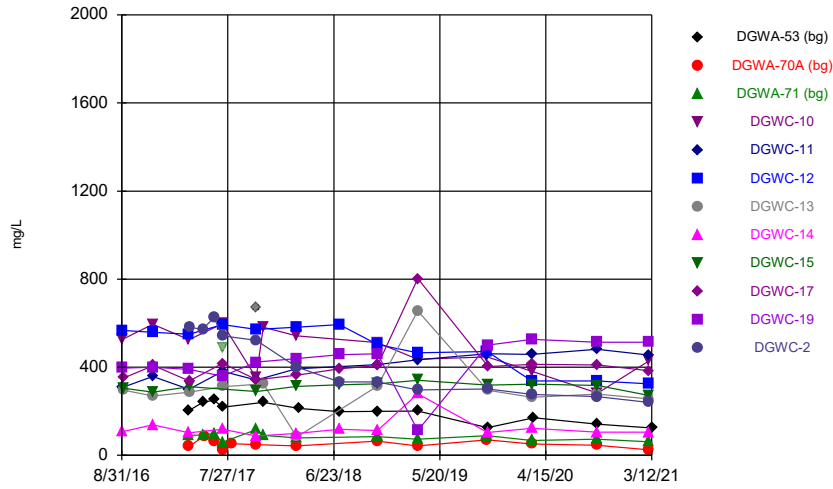
Constituent: Thallium Analysis Run 7/7/2021 11:14 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



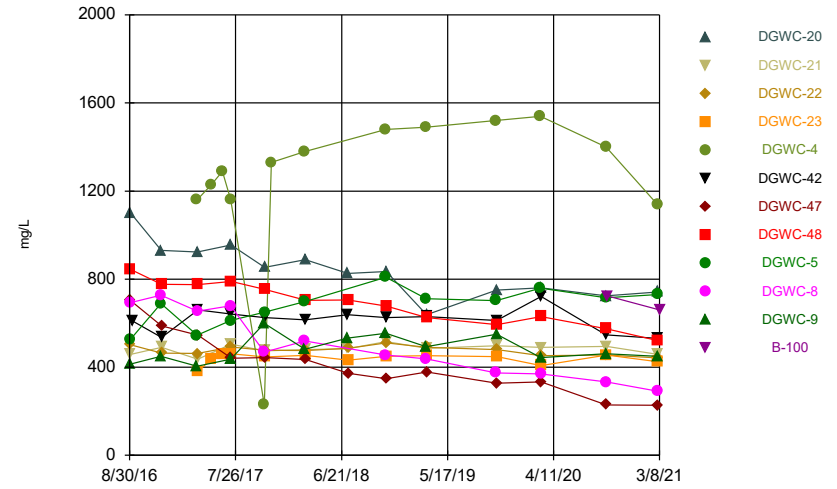
Constituent: Thallium Analysis Run 7/7/2021 11:14 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



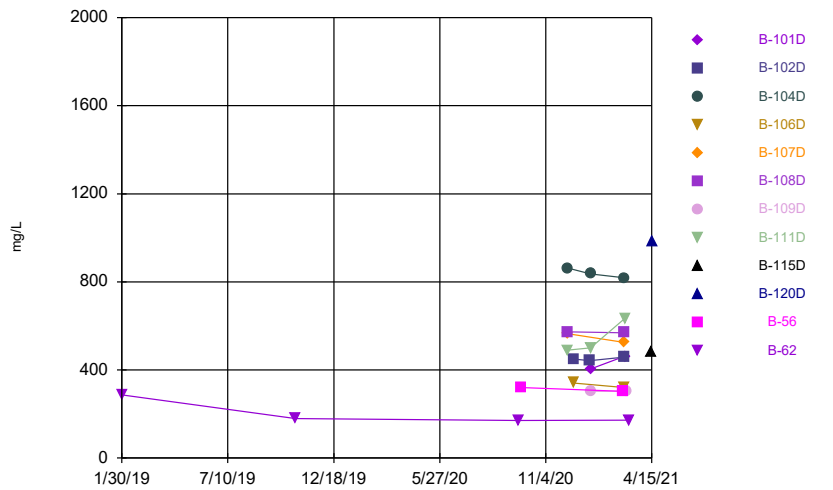
Constituent: Total Dissolved Solids [TDS] Analysis Run 7/7/2021 11:14 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



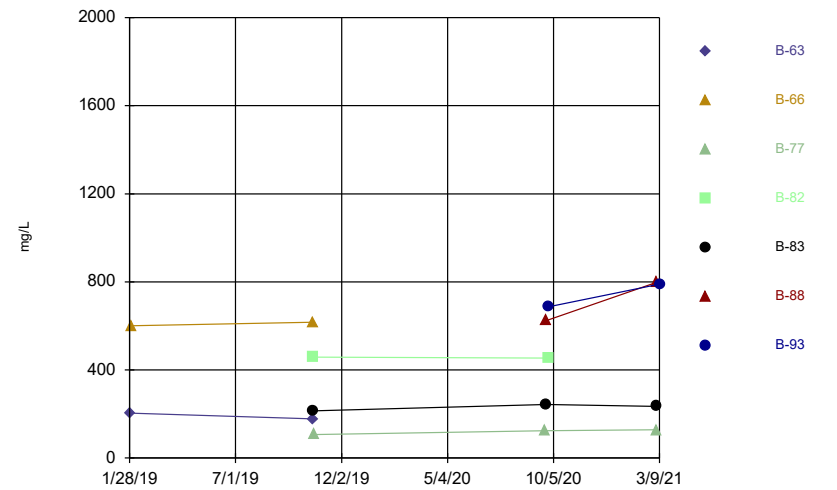
Constituent: Total Dissolved Solids [TDS] Analysis Run 7/7/2021 11:14 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/7/2021 11:14 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	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)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

3/8/2021	DGWC-8	DGWC-9	B-100
			<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2021 11:15 AM 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		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-93
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			

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	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		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2021 11:15 AM 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

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/7/2021 11:15 AM 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

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	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		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	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		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/7/2021 11:15 AM 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

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	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		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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
9/24/2020
9/25/2020
9/28/2020
3/4/2021
3/5/2021
3/9/2021

85.9

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/7/2021 11:15 AM 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

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	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		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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
9/24/2020
9/25/2020
9/28/2020
3/4/2021
3/5/2021
3/9/2021

96.8

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
3/3/2021			
3/8/2021			0.029

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2021 11:15 AM 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		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

3/8/2021	DGWC-8	DGWC-9	B-100
			0.168 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2021 11:15 AM 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		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

DGWC-17

DGWC-19

DGWC-2

3/12/2021

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	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

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/7/2021 11:15 AM 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		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-93
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

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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		

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-93
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)						

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2021 11:15 AM 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	

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2021 11:15 AM 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		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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)		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-93
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

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2021 11:15 AM 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	5.875 (D)
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 (D)								
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 (D)		5.685 (D)	5.75 (D)	5.81 (D)

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2021 11:15 AM 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		4.655 (D)	
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 (D)	6.01 (D)

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
3/3/2021	5.23 (D)		
3/4/2021			
3/12/2021			

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2021 11:15 AM 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 (D)			4.54 (D)
10/26/2017				5.9			5.37 (D)	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 7/7/2021 11:15 AM 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 (D)	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 (D)
8/11/2020		4	
8/12/2020	5.36		
8/13/2020			
8/14/2020			
8/17/2020			5.02 (D)
9/22/2020		4	
9/23/2020	5.21		
9/24/2020			

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
9/25/2020			5.53 (D)
3/1/2021			
3/2/2021	6.6 (D)	3.99 (D)	
3/3/2021			
3/8/2021			5.32 (D)

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
9/11/2019			6.27
10/21/2019			6.24
8/13/2020			6.4 (D)
8/17/2020		4.82 (D)	
9/24/2020			6.55 (D)
9/28/2020		4.9 (D)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		4.71 (D)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			6.34 (D)
4/14/2021			
4/15/2021	5.46 (D)		

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2021 11:15 AM 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 (D)

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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)		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/7/2021 11:15 AM 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

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	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		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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	

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2021 11:15 AM 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 7/7/2021 11:15 AM 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		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 7/7/2021 11:15 AM 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			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 7/7/2021 11:15 AM 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

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	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		

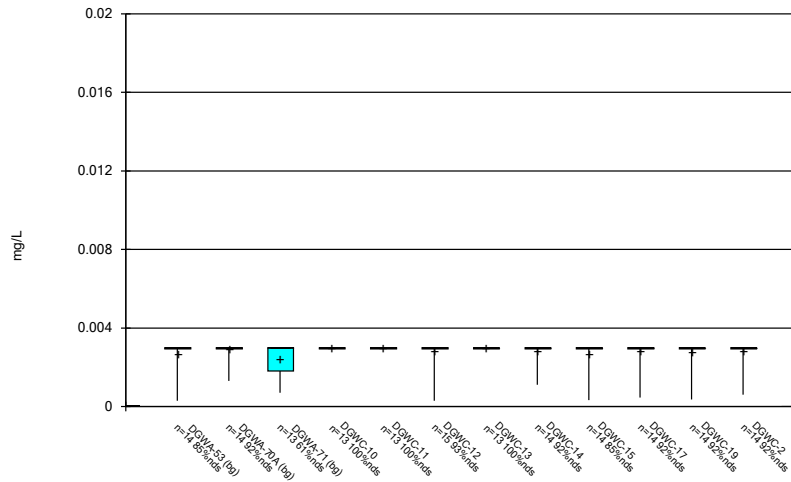
Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 7/7/2021 11:15 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-93
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

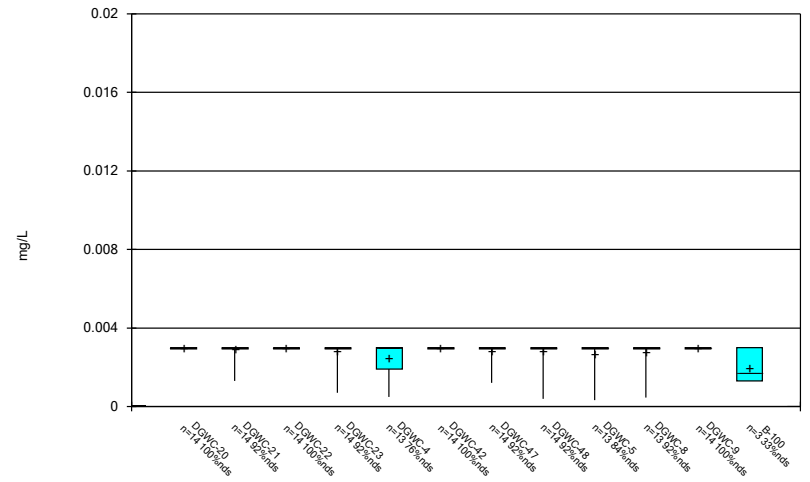
FIGURE B.

Box & Whiskers Plot



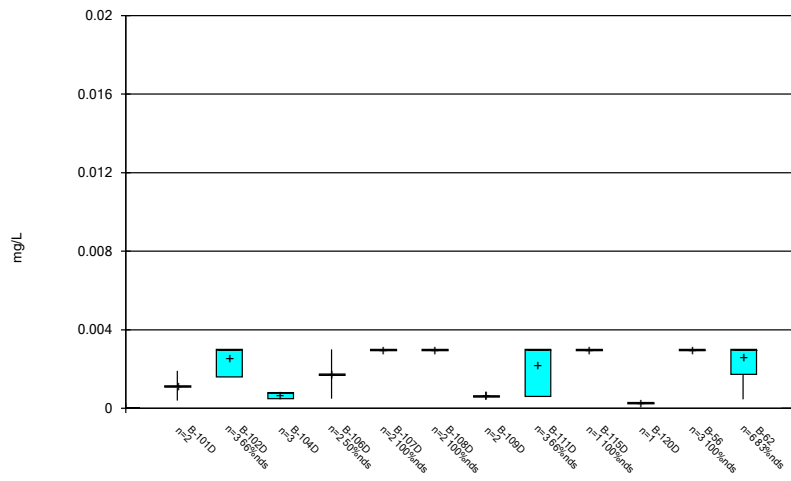
Constituent: Antimony Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



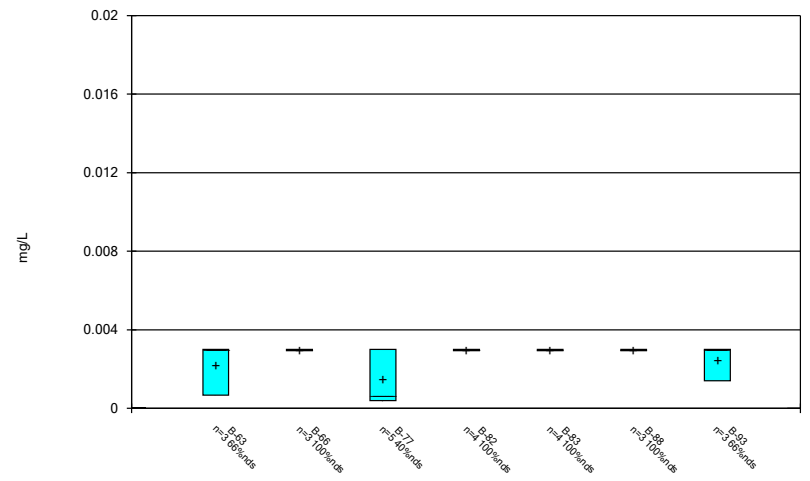
Constituent: Antimony Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



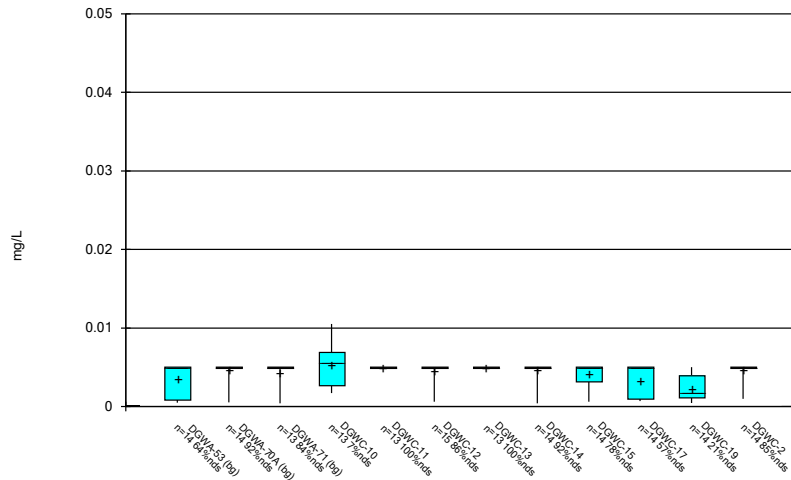
Constituent: Antimony Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



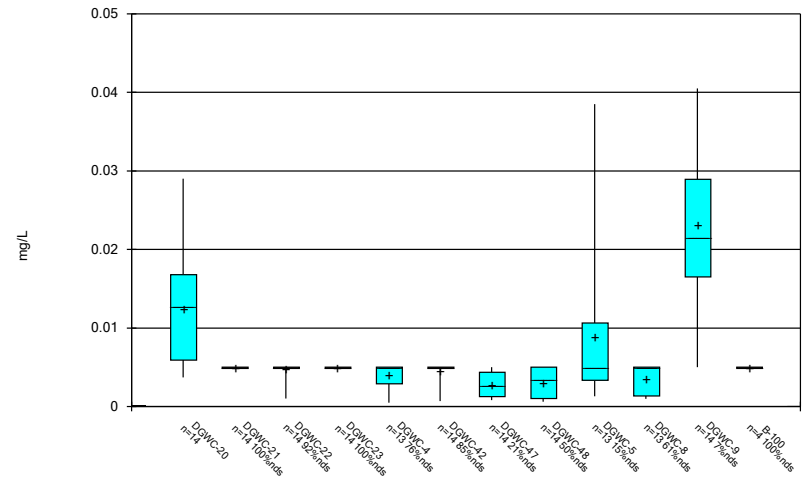
Constituent: Antimony Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



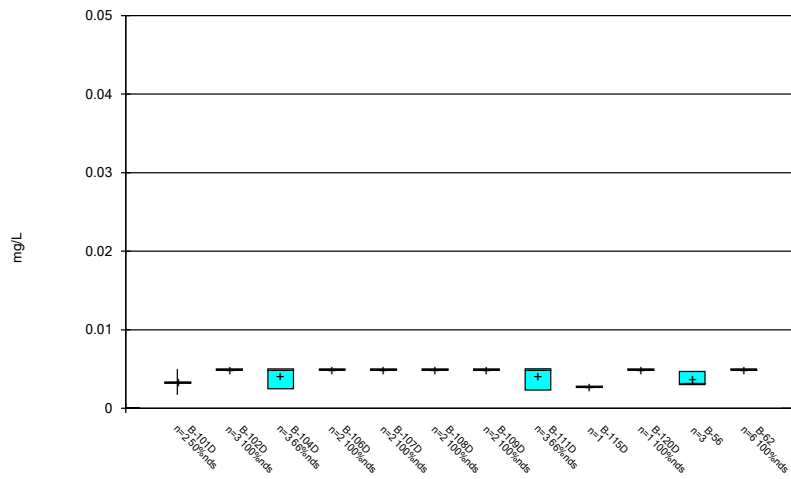
Constituent: Arsenic Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



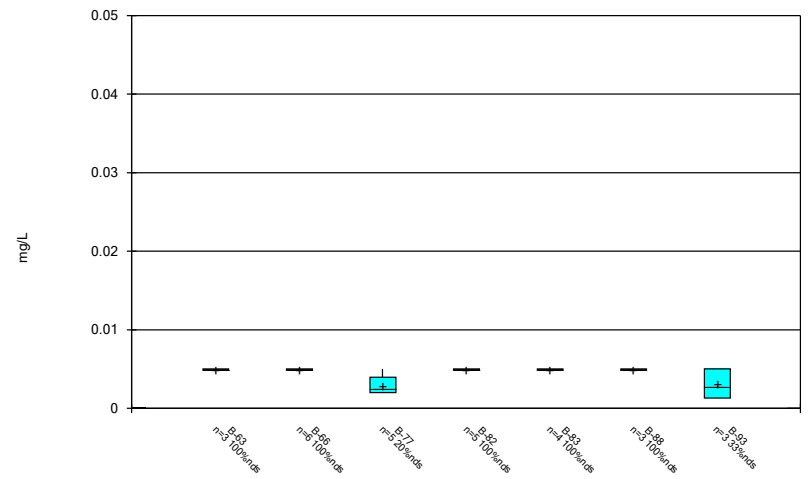
Constituent: Arsenic Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



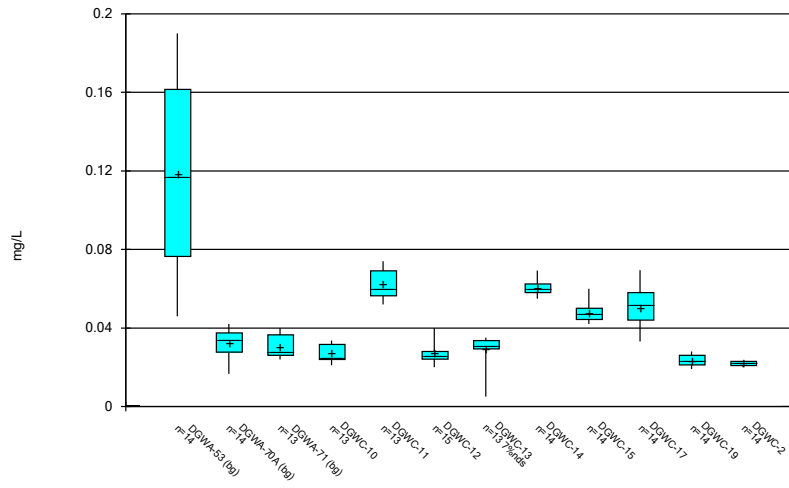
Constituent: Arsenic Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



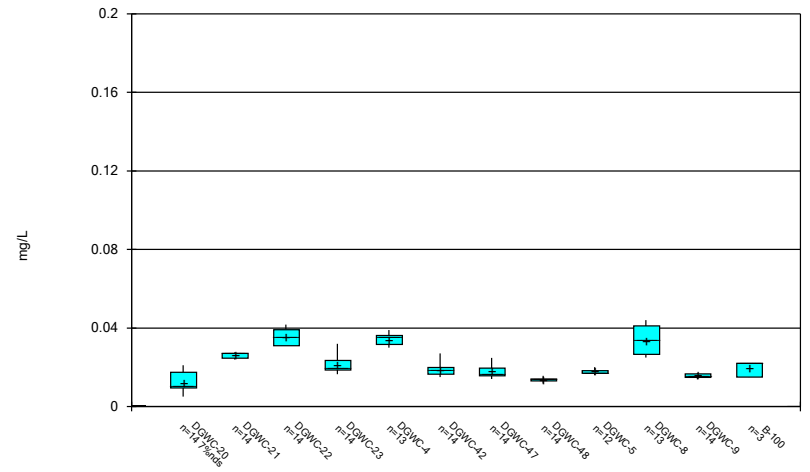
Constituent: Arsenic Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



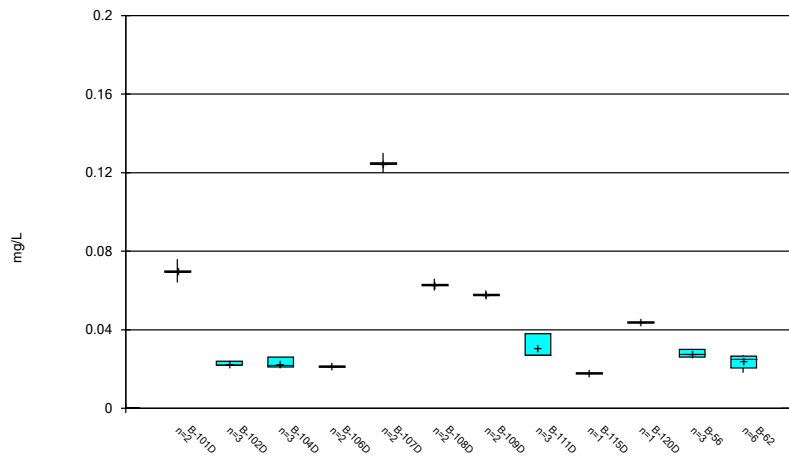
Constituent: Barium Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



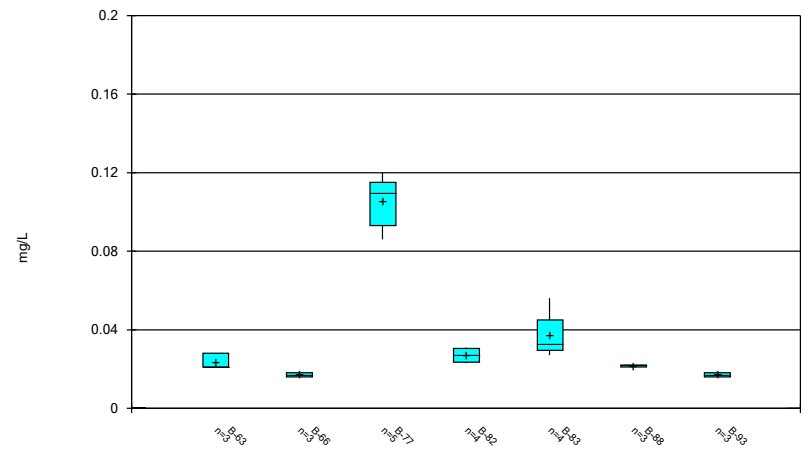
Constituent: Barium Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



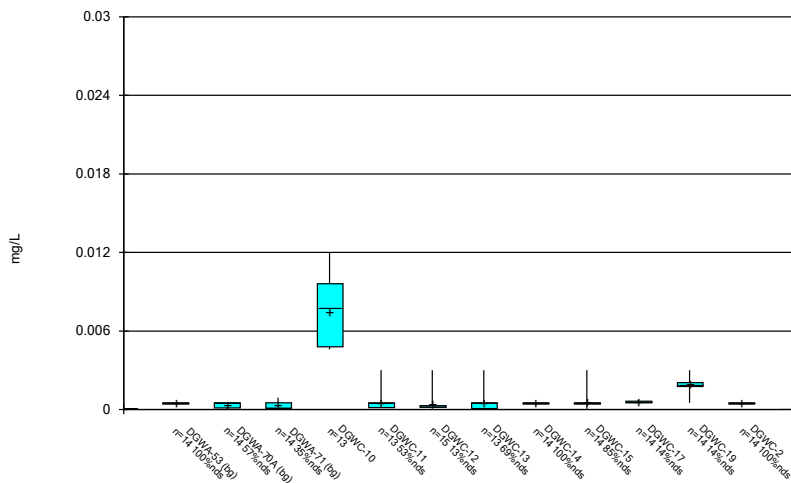
Constituent: Barium Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



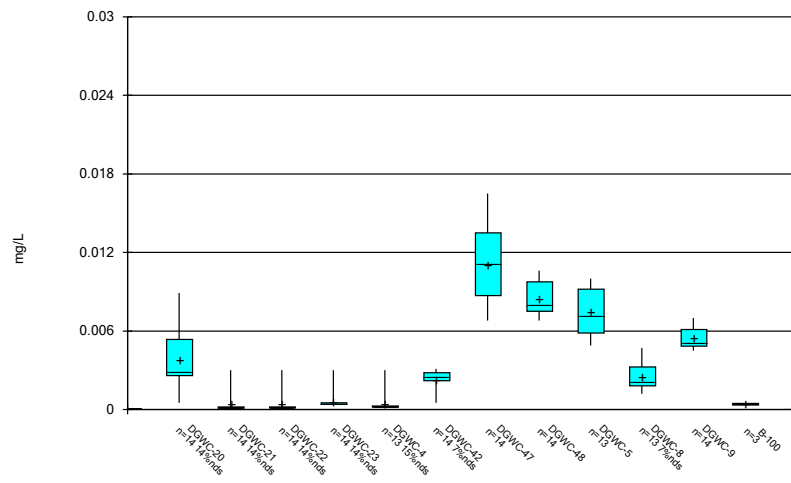
Constituent: Barium Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



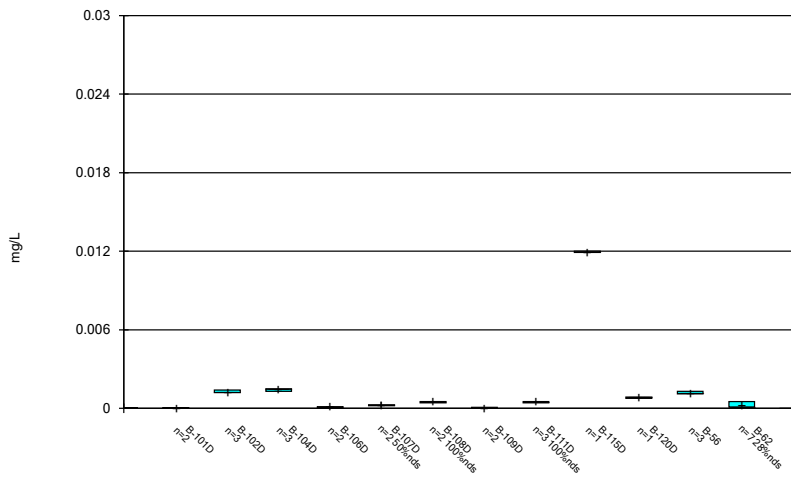
Constituent: Beryllium Analysis Run 7/7/2021 11:16 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



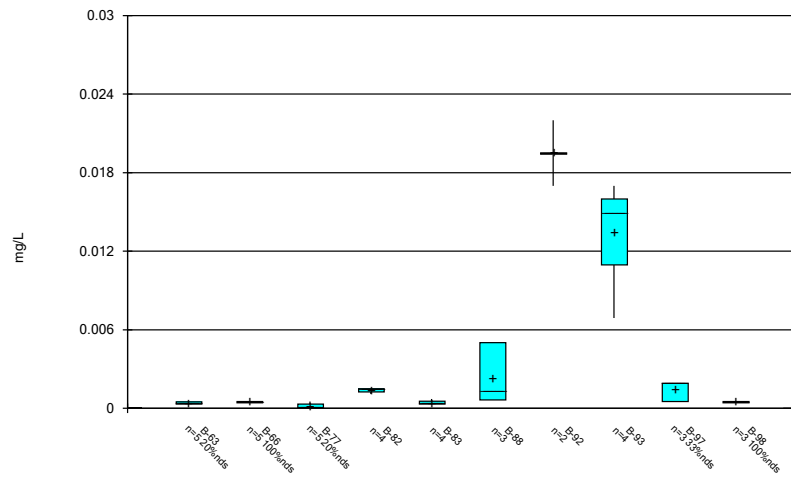
Constituent: Beryllium Analysis Run 7/7/2021 11:16 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



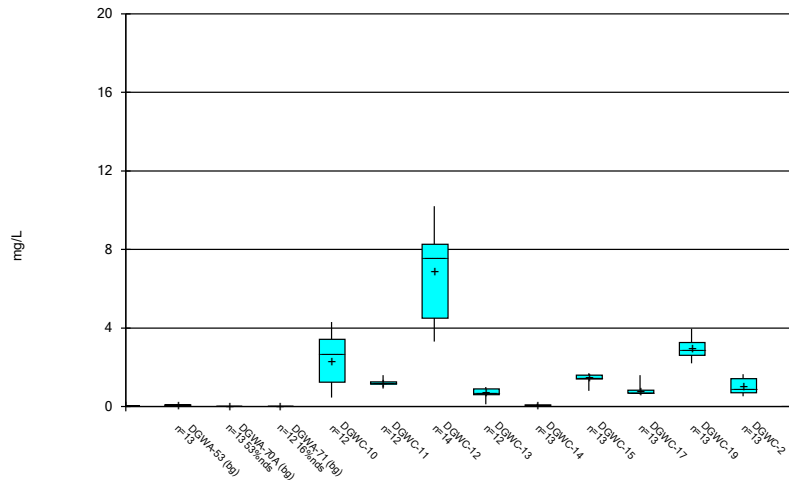
Constituent: Beryllium Analysis Run 7/7/2021 11:16 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



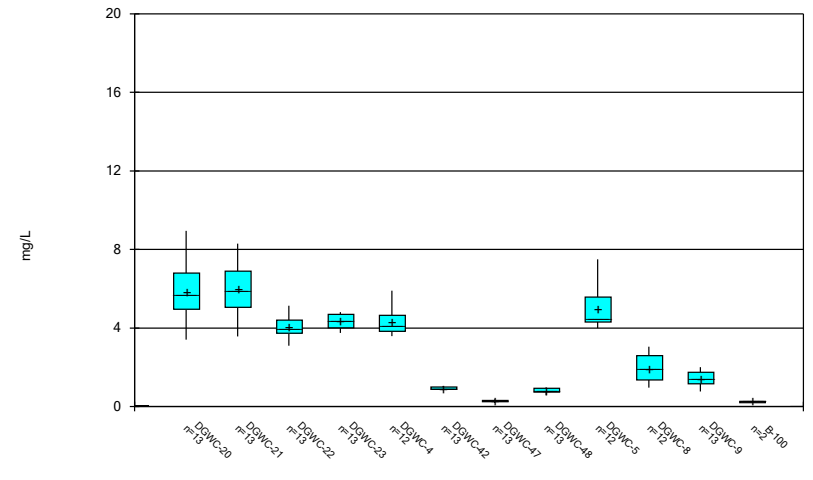
Constituent: Beryllium Analysis Run 7/7/2021 11:16 AM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



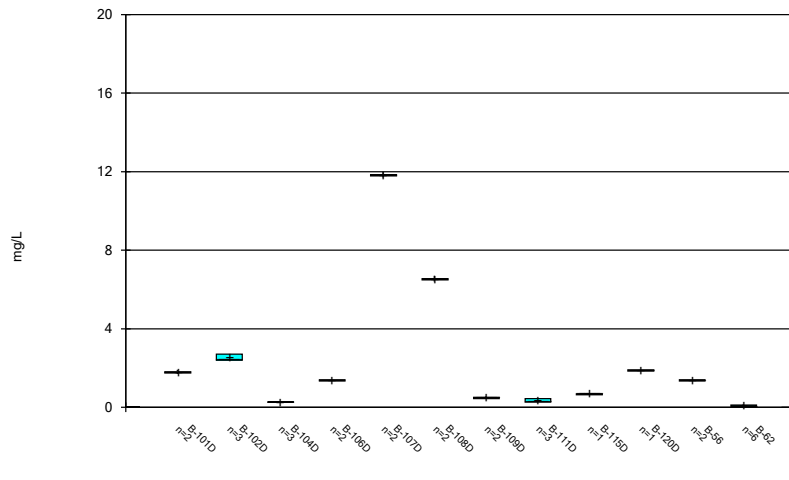
Constituent: Boron, total Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



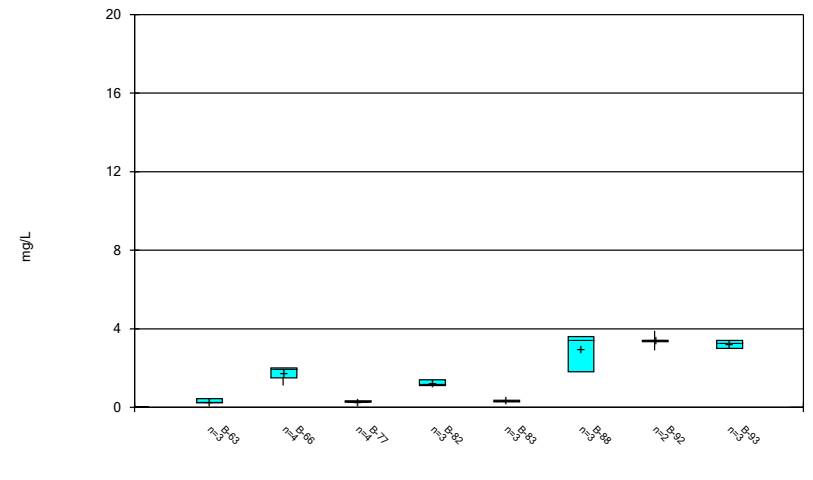
Constituent: Boron, total Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



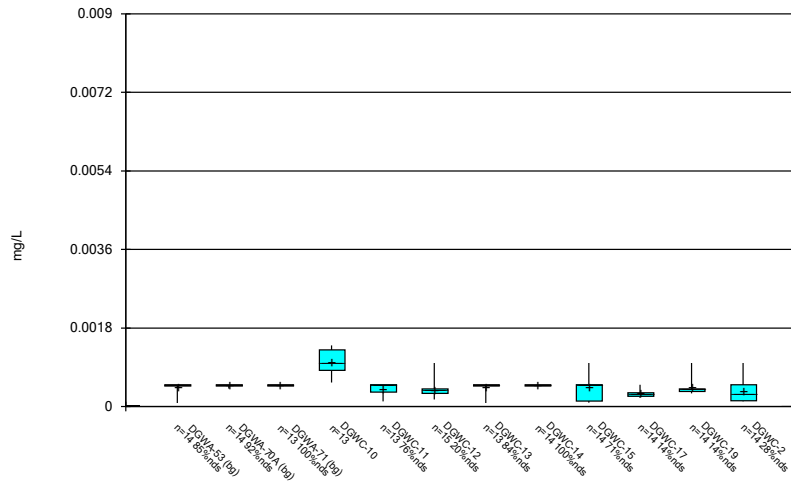
Constituent: Boron, total Analysis Run 7/7/2021 11:16 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



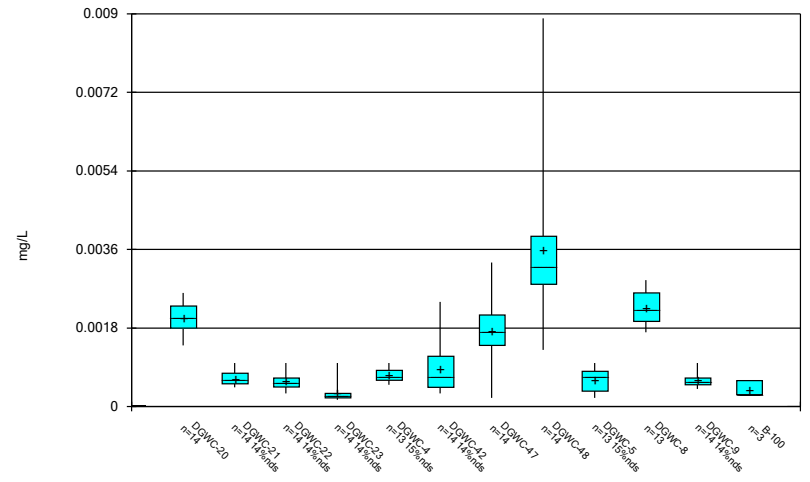
Constituent: Boron, total Analysis Run 7/7/2021 11:17 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



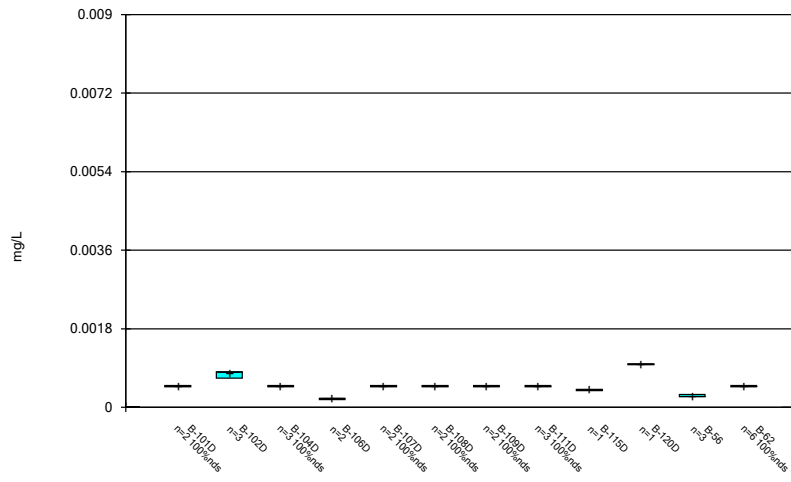
Constituent: Cadmium Analysis Run 7/7/2021 11:17 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



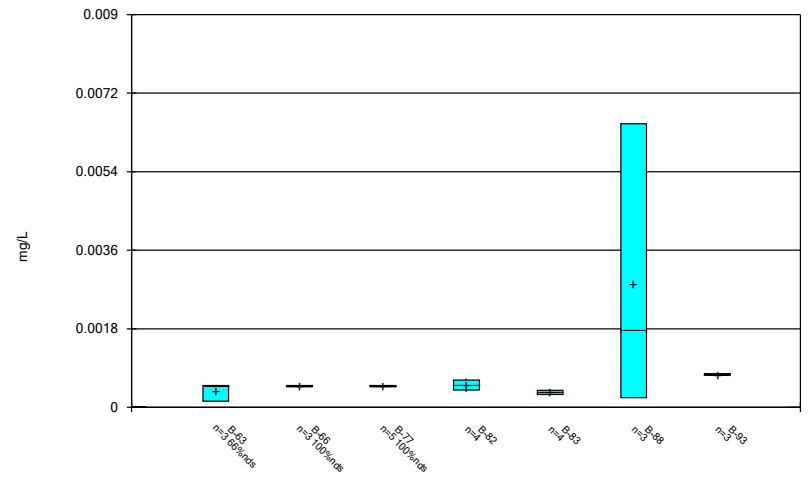
Constituent: Cadmium Analysis Run 7/7/2021 11:17 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



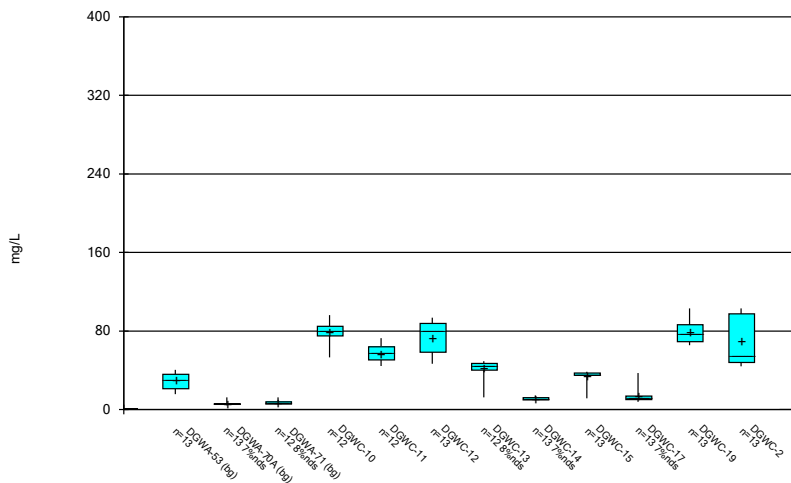
Constituent: Cadmium Analysis Run 7/7/2021 11:17 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



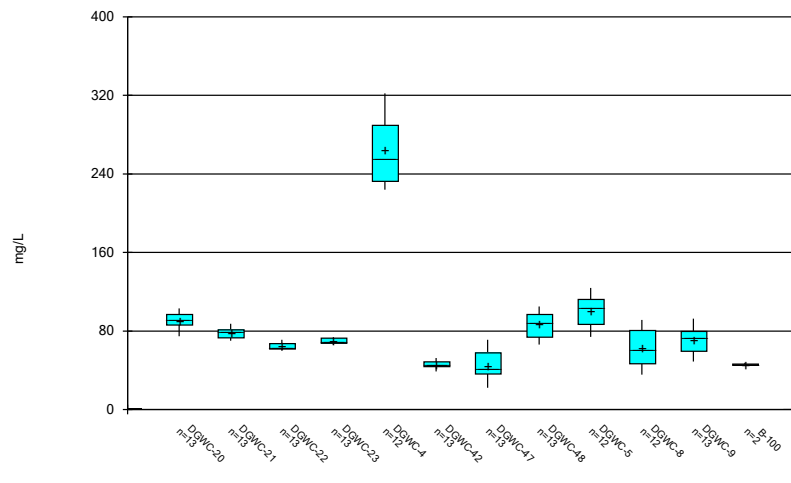
Constituent: Cadmium Analysis Run 7/7/2021 11:17 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



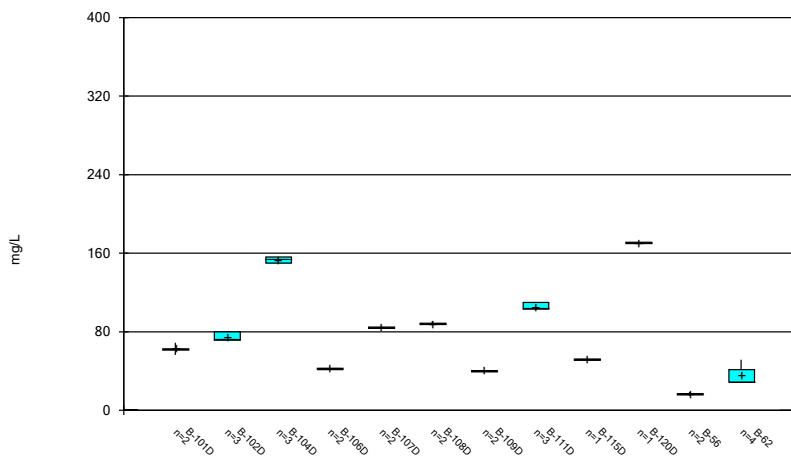
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



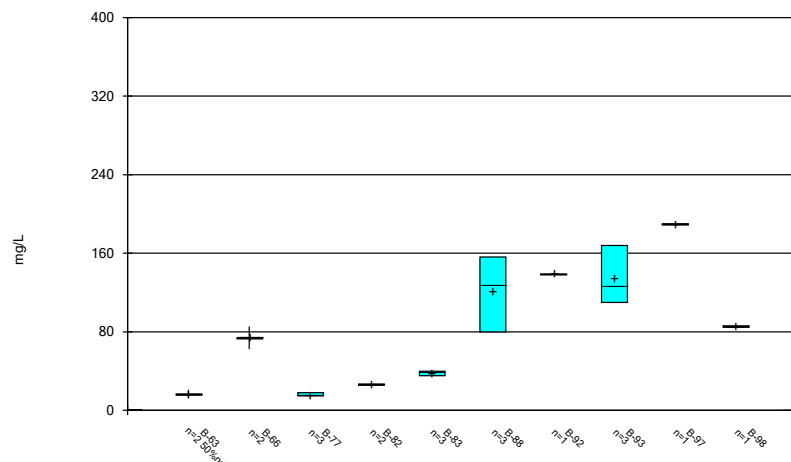
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



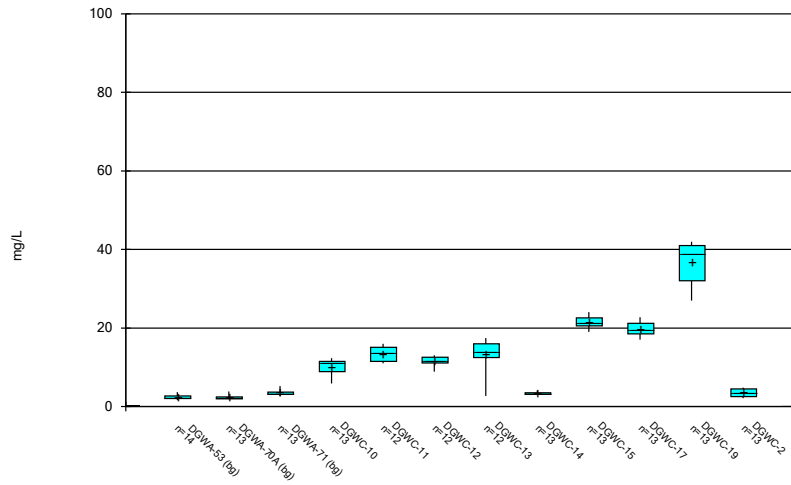
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



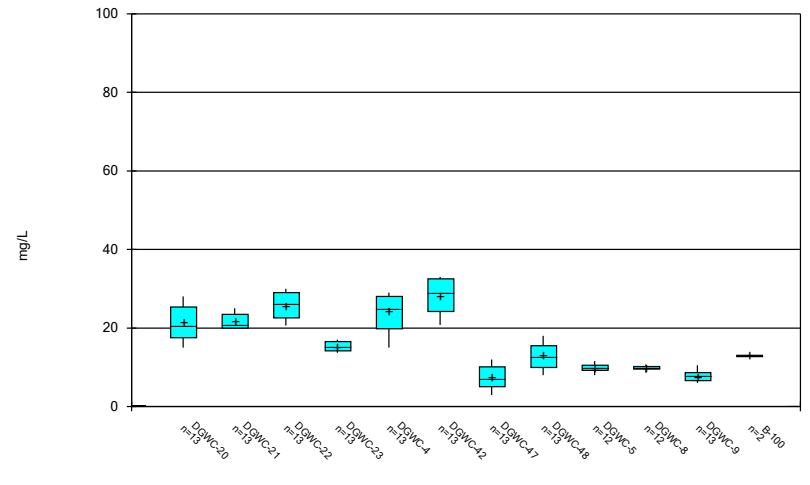
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



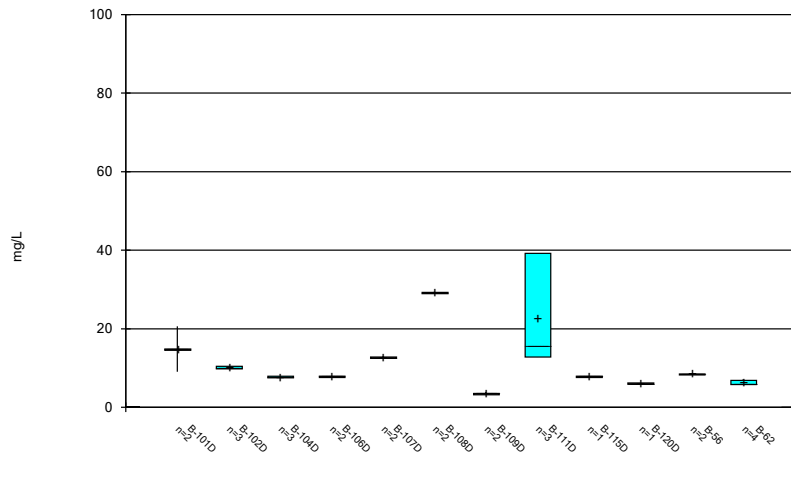
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Box & Whiskers Plot



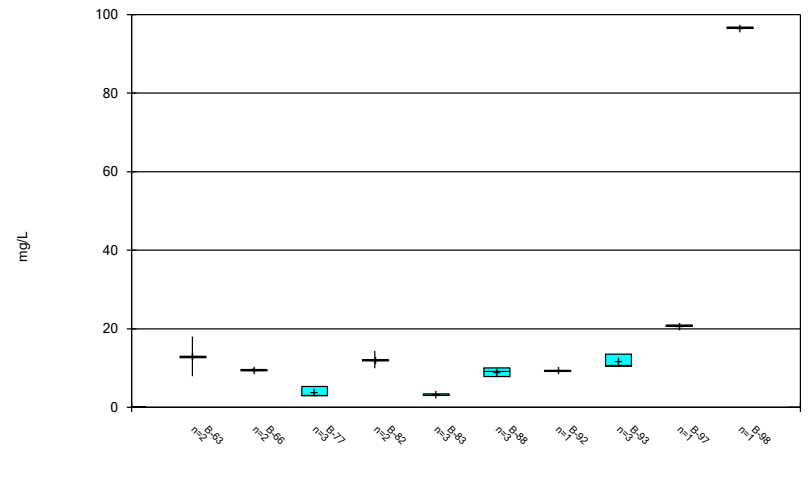
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Box & Whiskers Plot



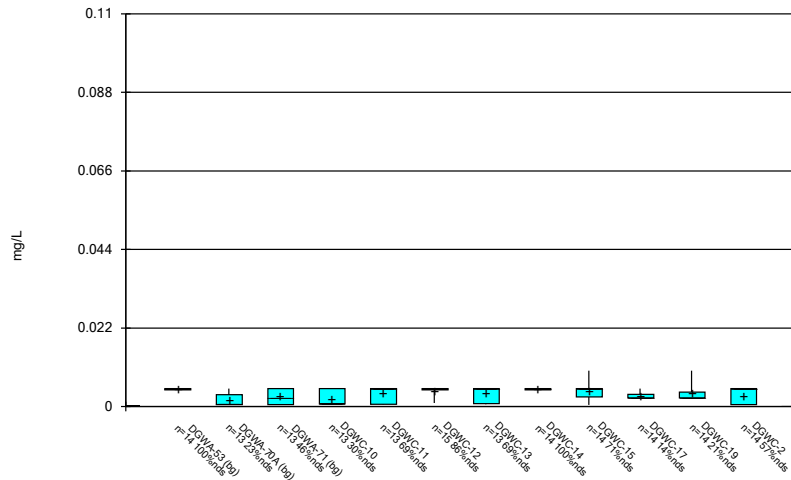
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Box & Whiskers Plot



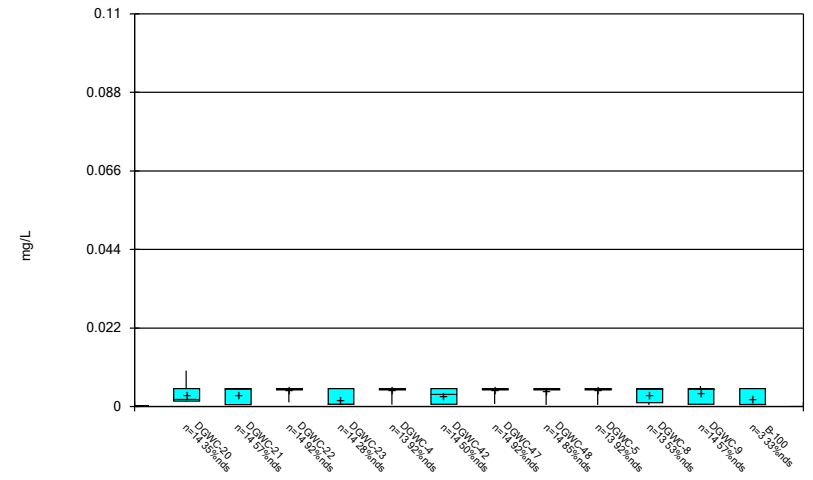
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Box & Whiskers Plot



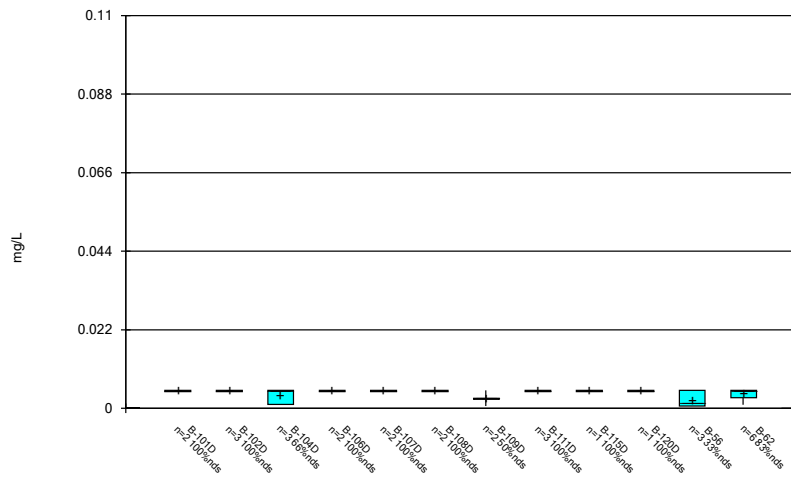
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Box & Whiskers Plot



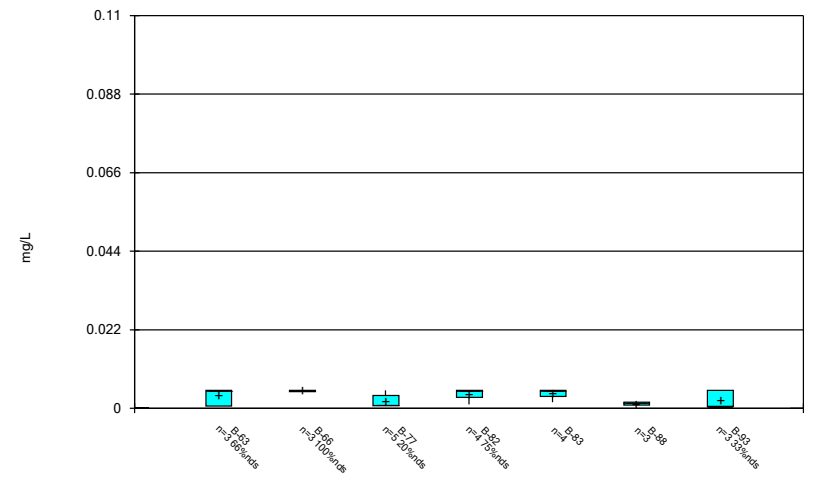
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Box & Whiskers Plot



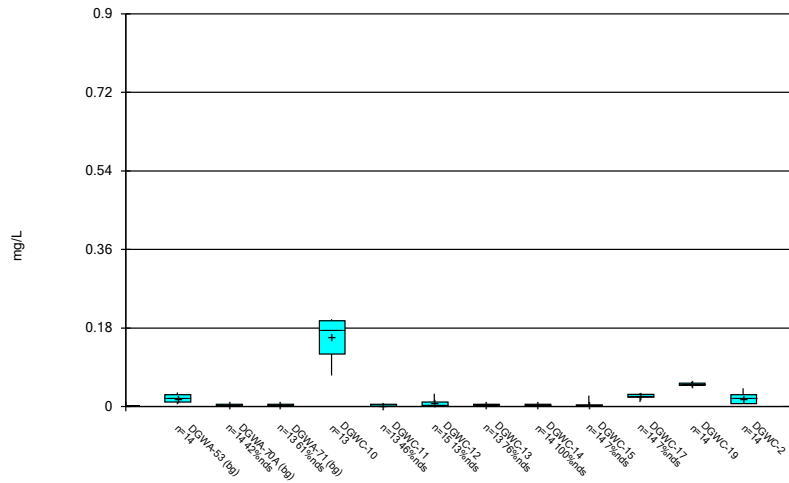
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



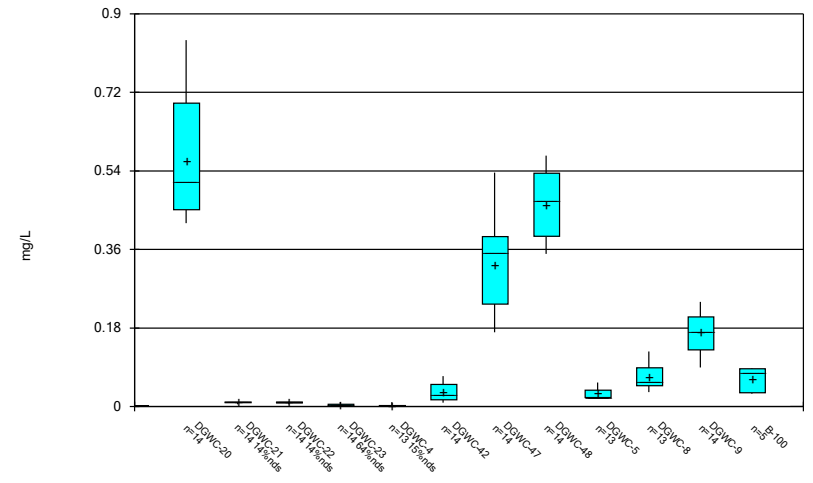
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Box & Whiskers Plot



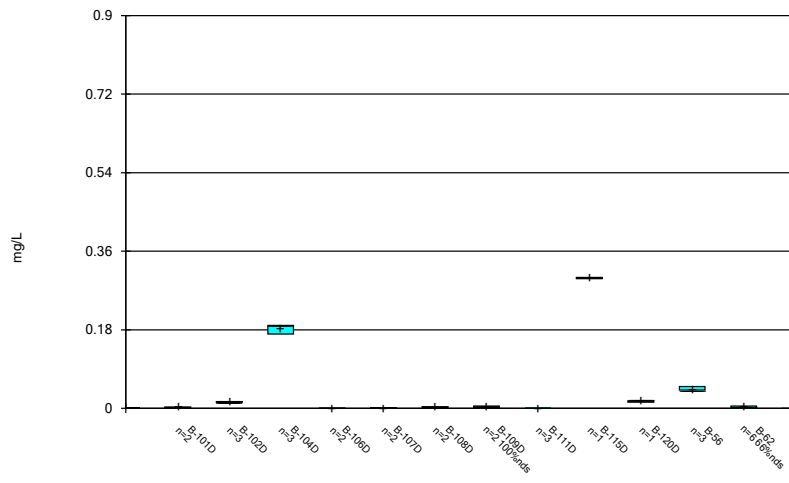
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



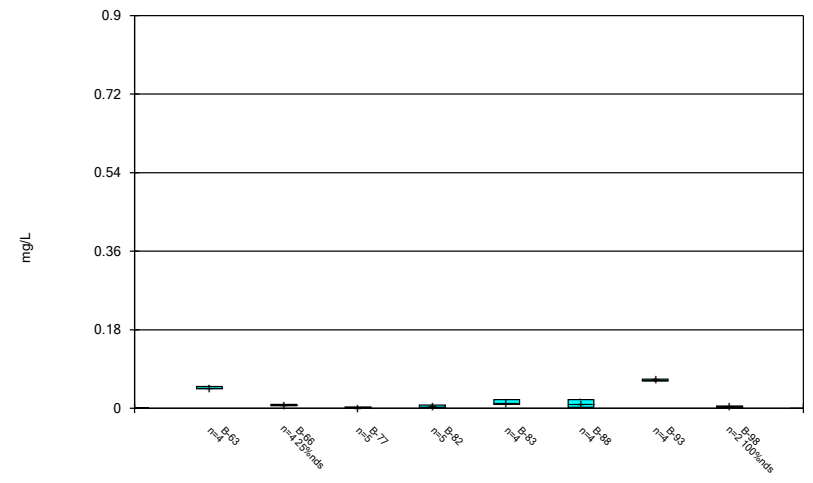
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Box & Whiskers Plot



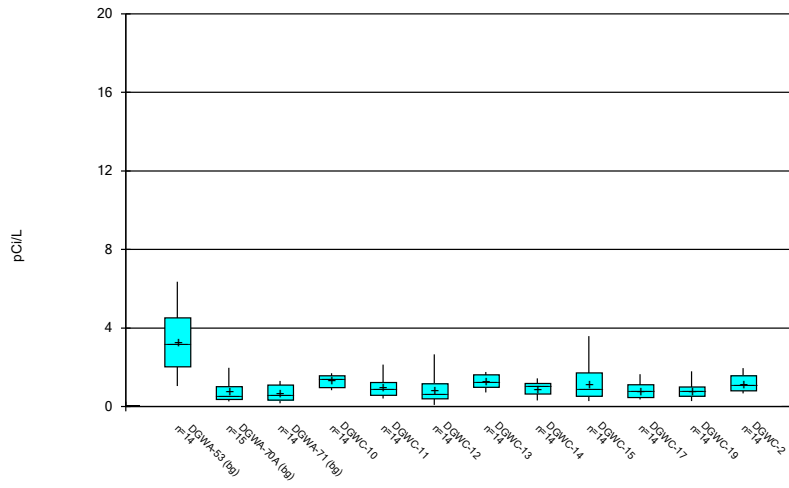
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



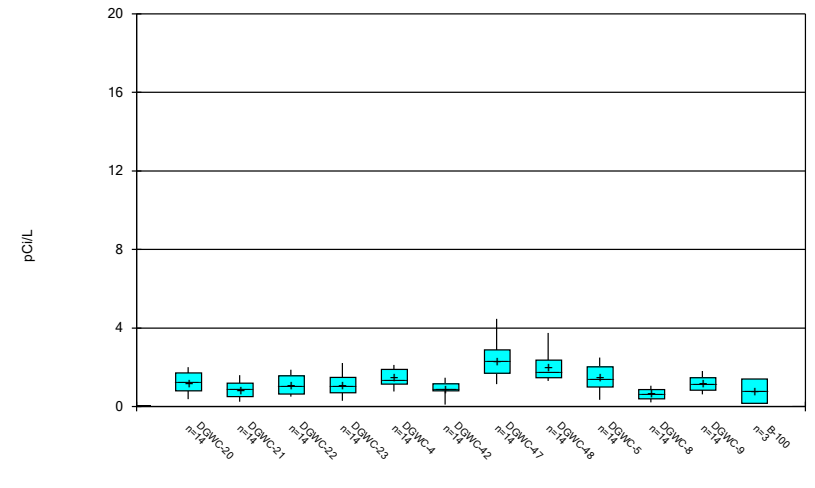
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



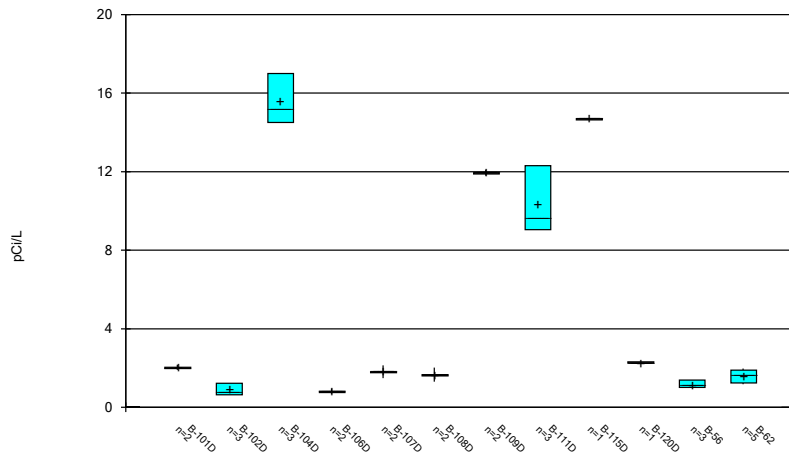
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



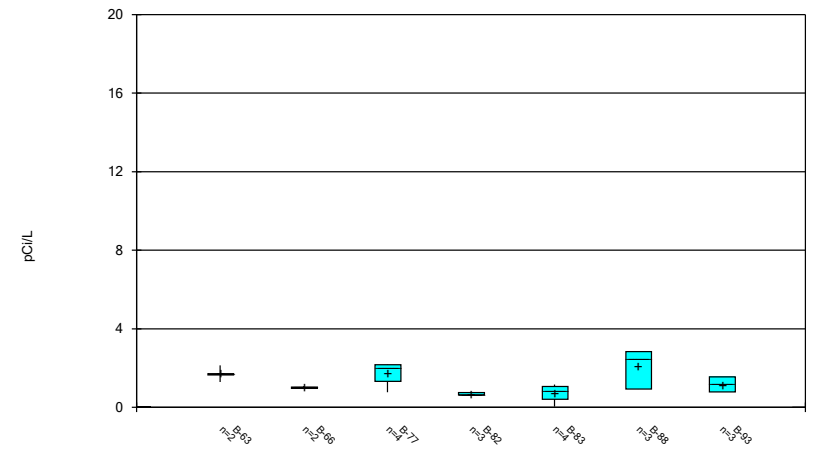
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



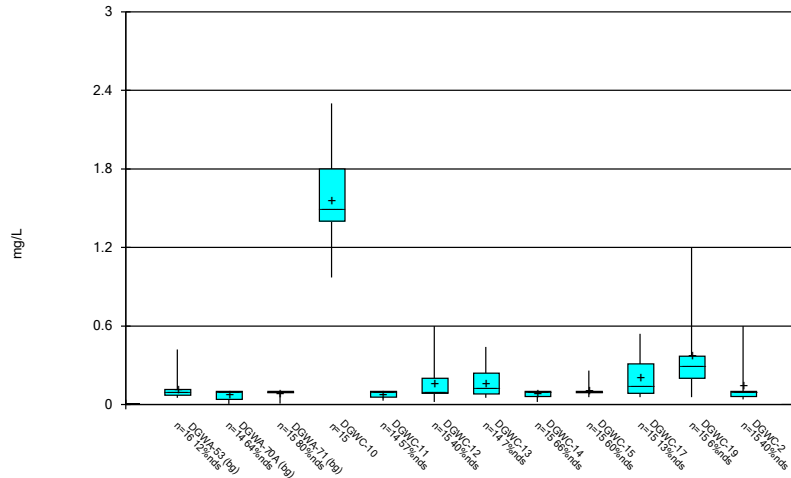
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



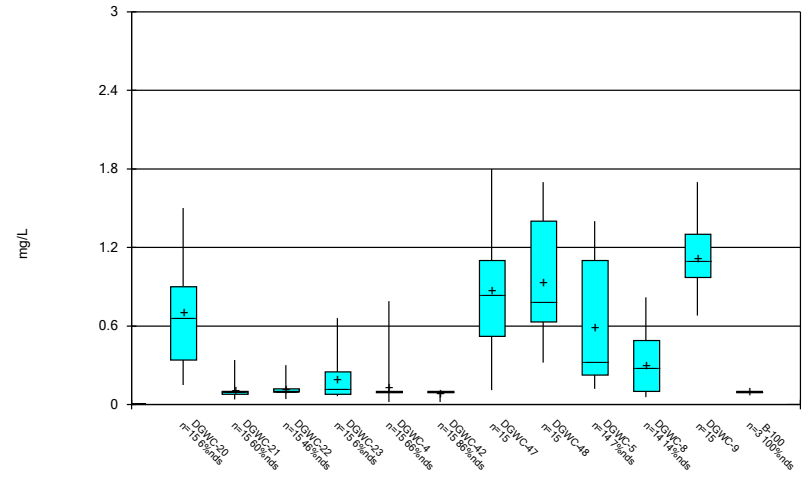
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



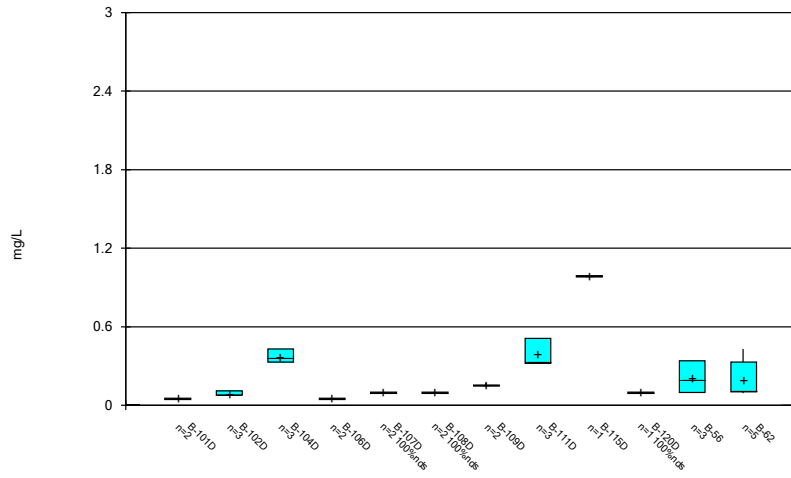
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



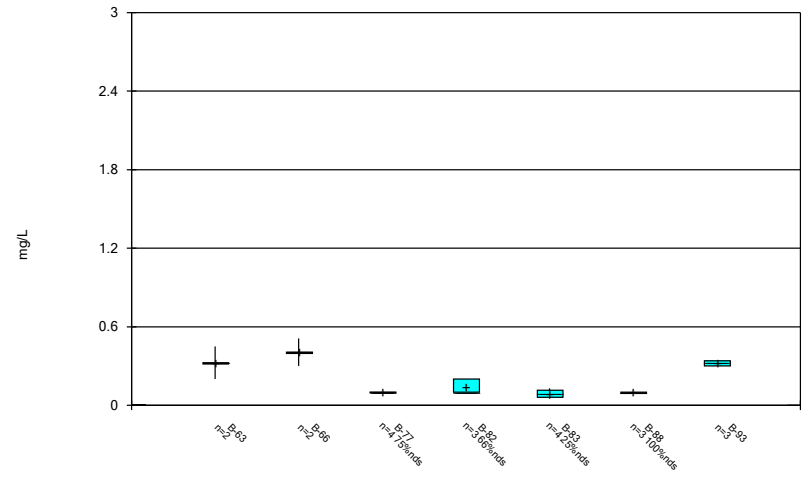
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



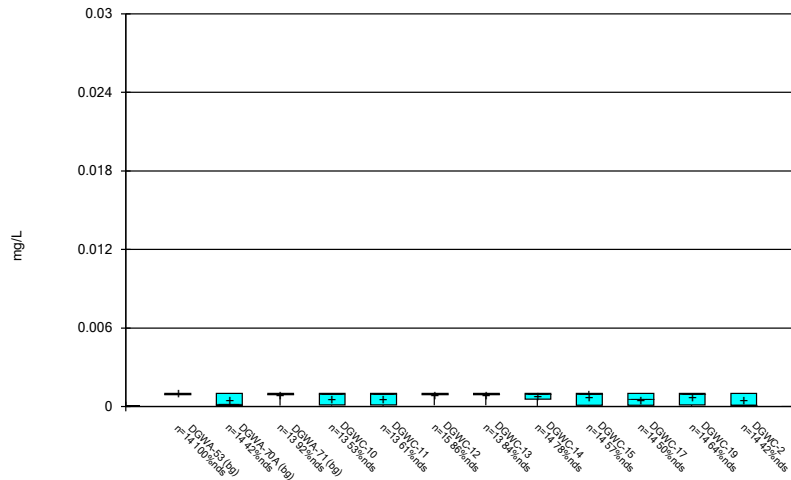
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



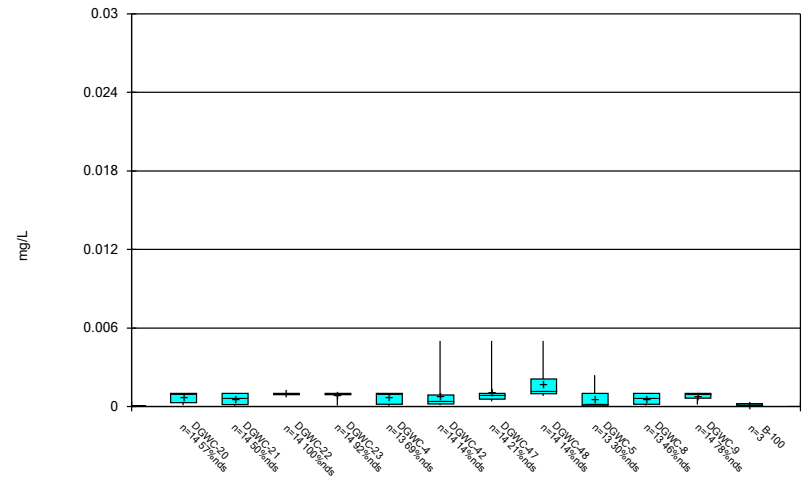
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Box & Whiskers Plot



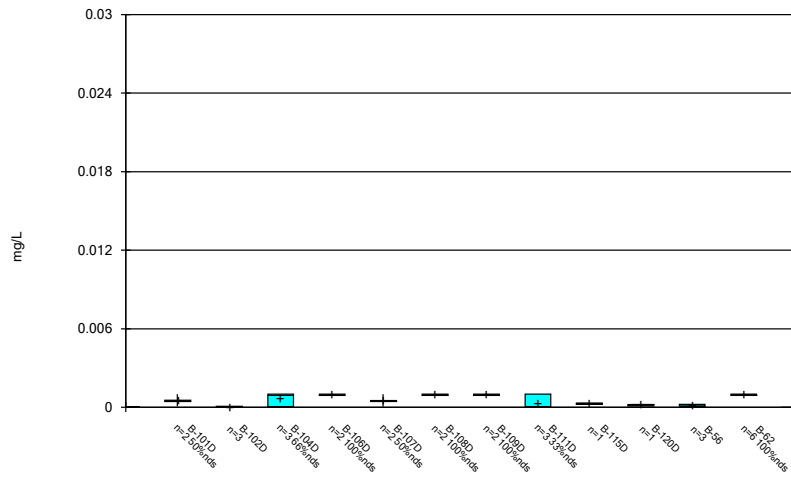
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Box & Whiskers Plot



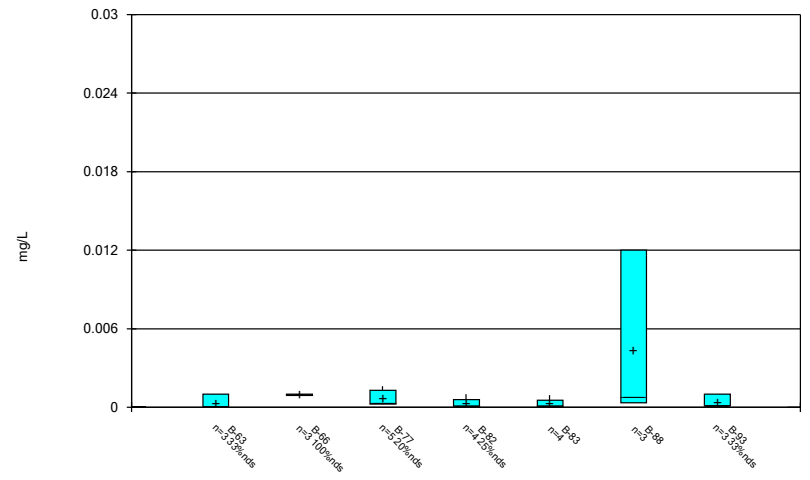
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Box & Whiskers Plot



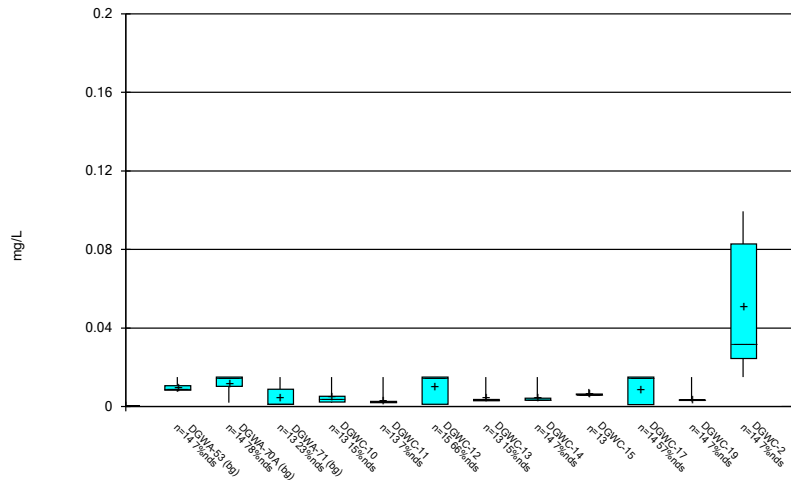
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Box & Whiskers Plot



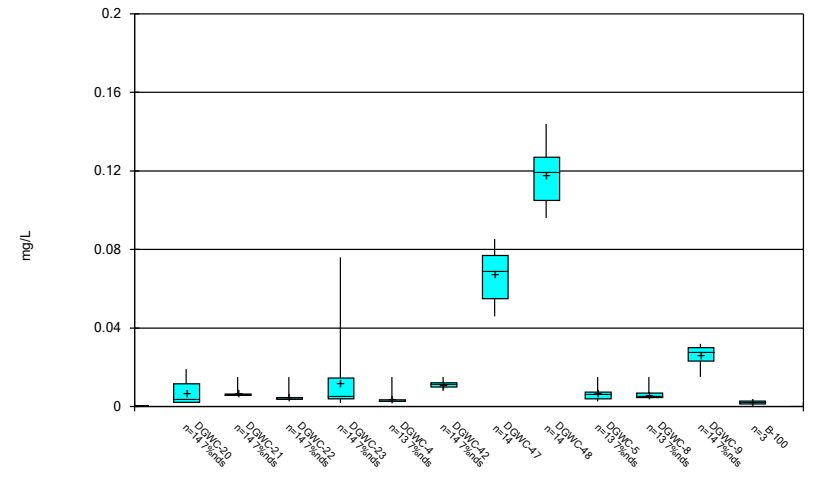
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Box & Whiskers Plot



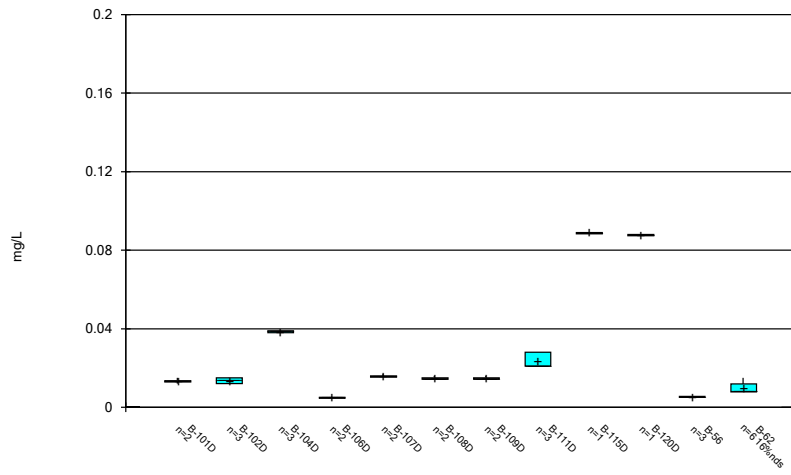
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Box & Whiskers Plot



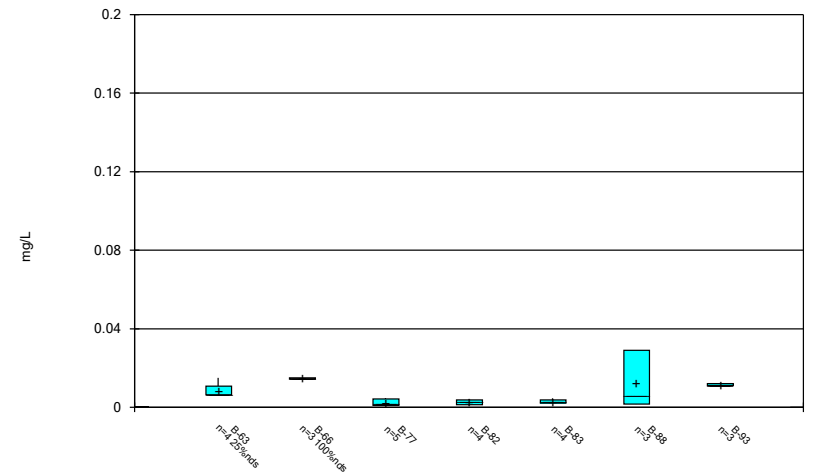
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Box & Whiskers Plot



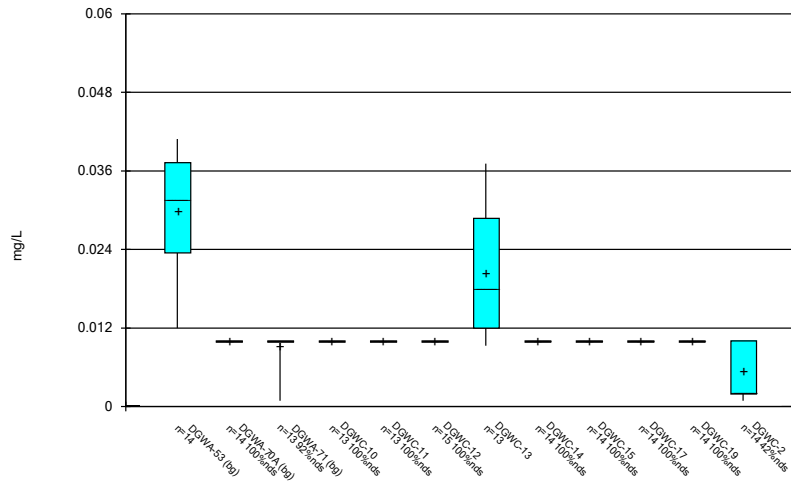
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



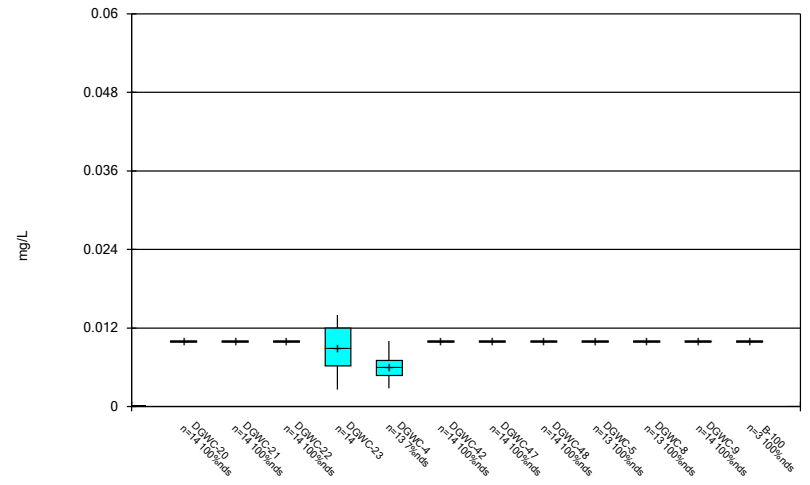
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Box & Whiskers Plot



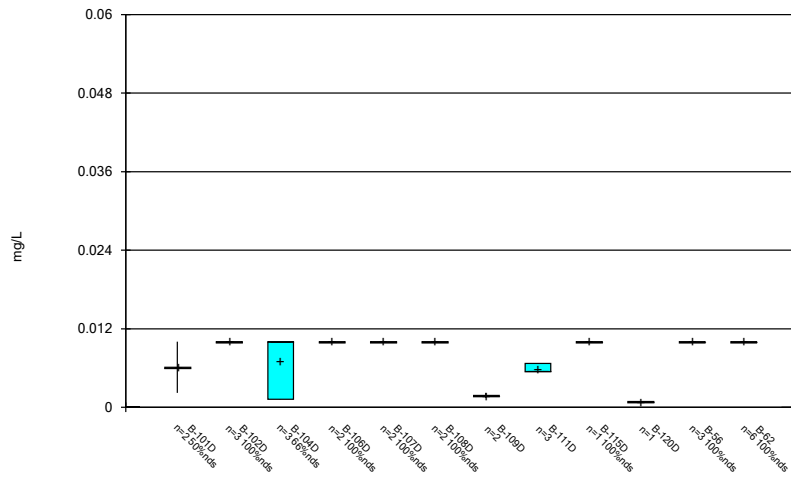
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



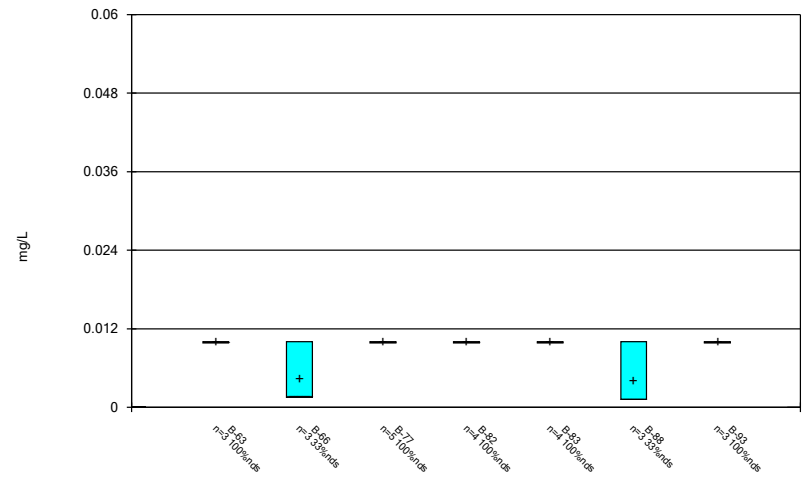
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



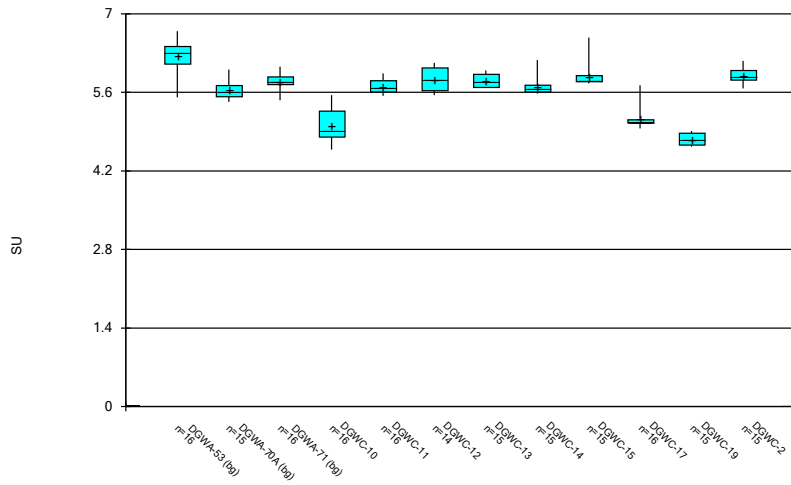
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



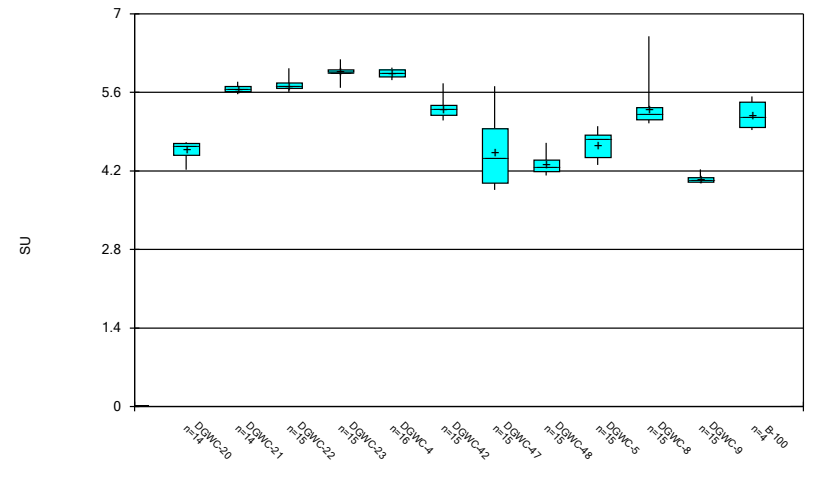
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Box & Whiskers Plot



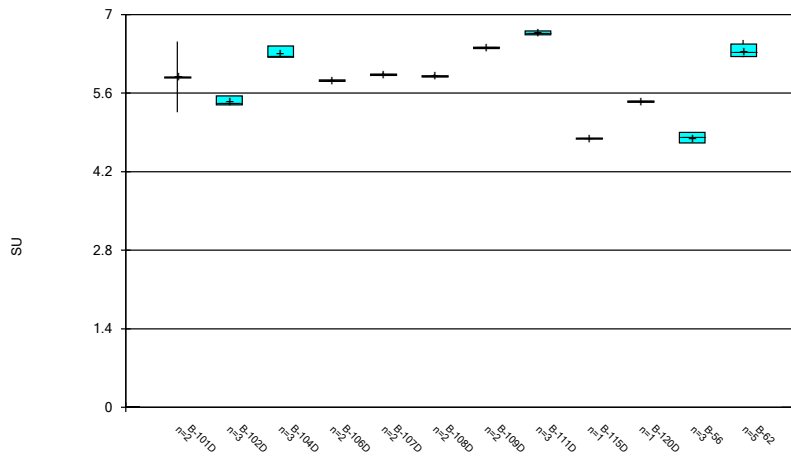
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



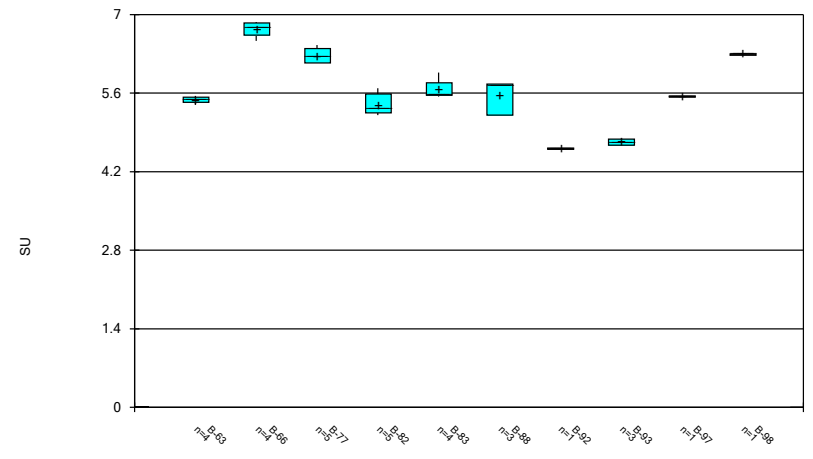
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



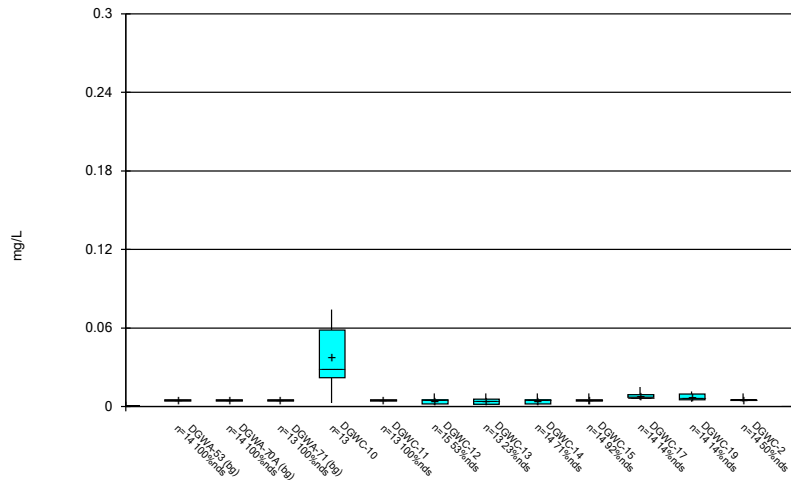
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Box & Whiskers Plot



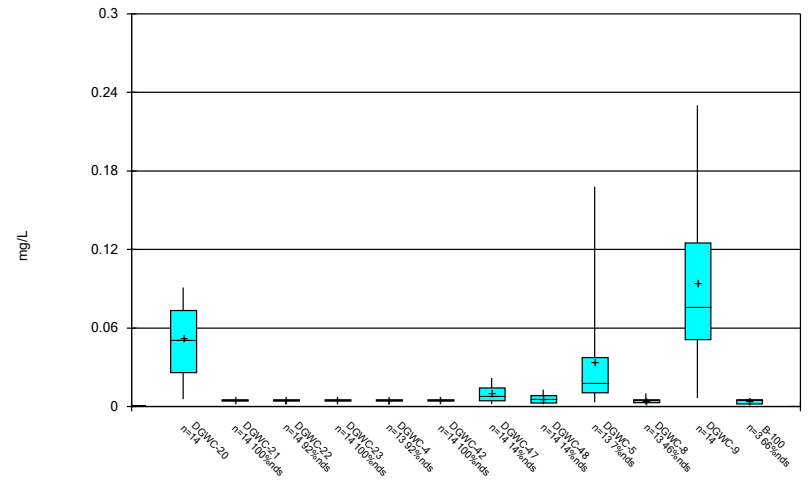
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Box & Whiskers Plot



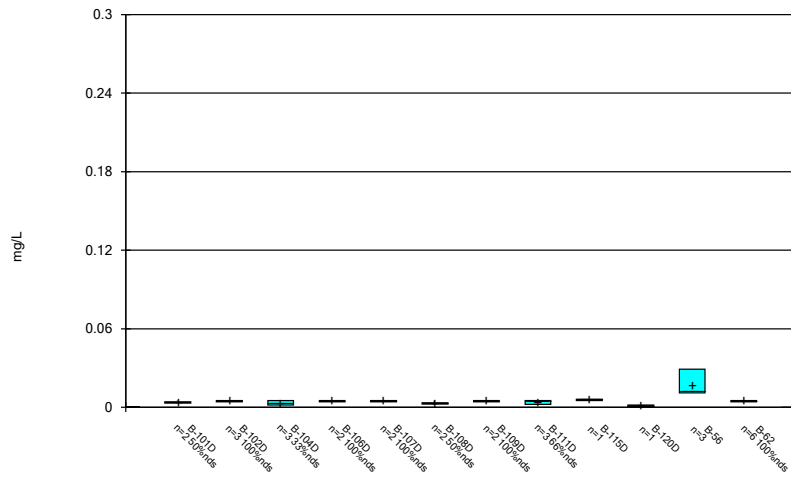
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Box & Whiskers Plot



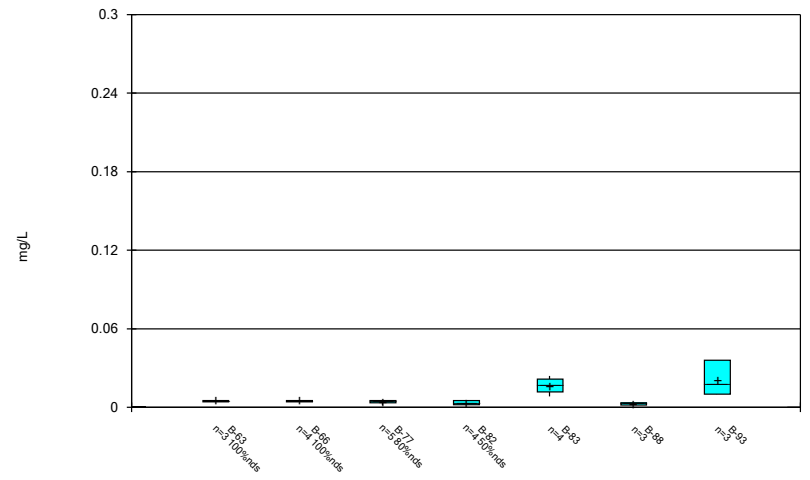
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



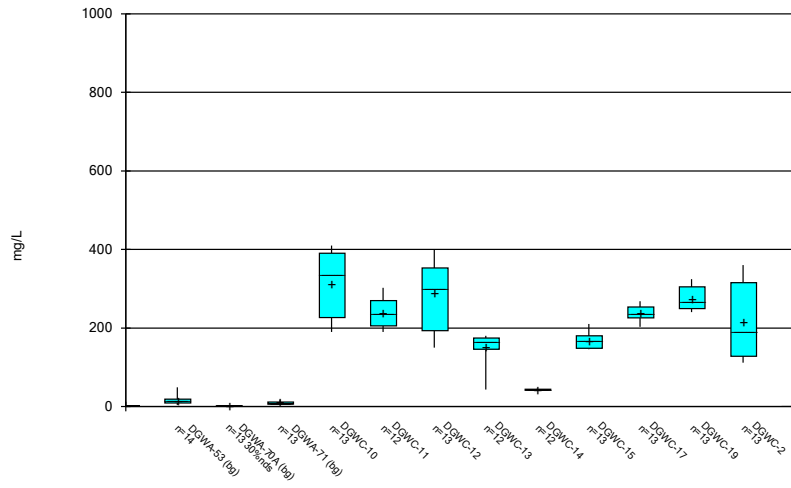
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Box & Whiskers Plot



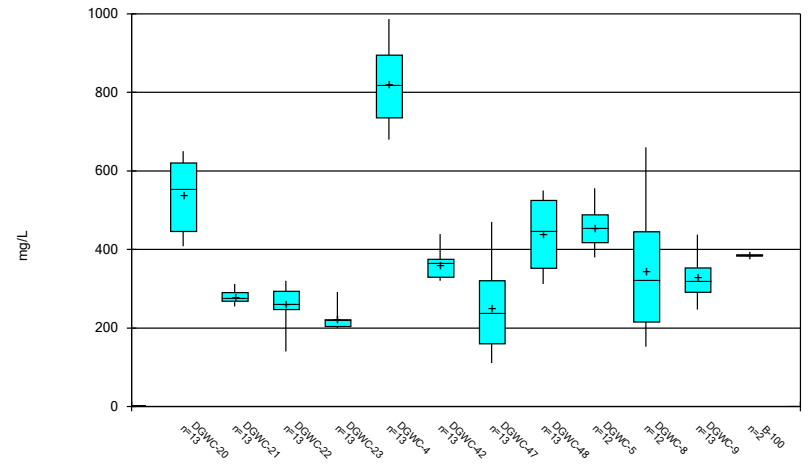
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



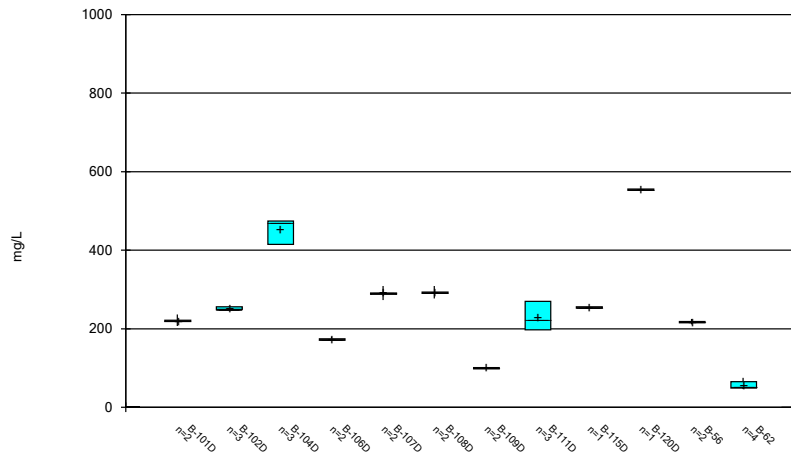
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



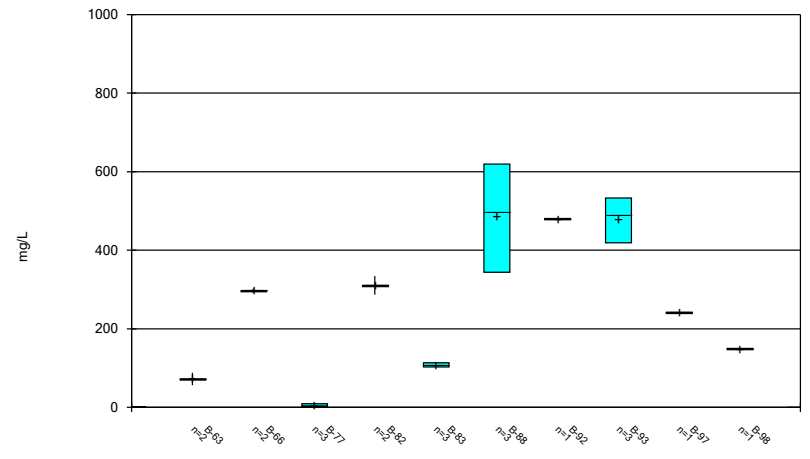
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Box & Whiskers Plot



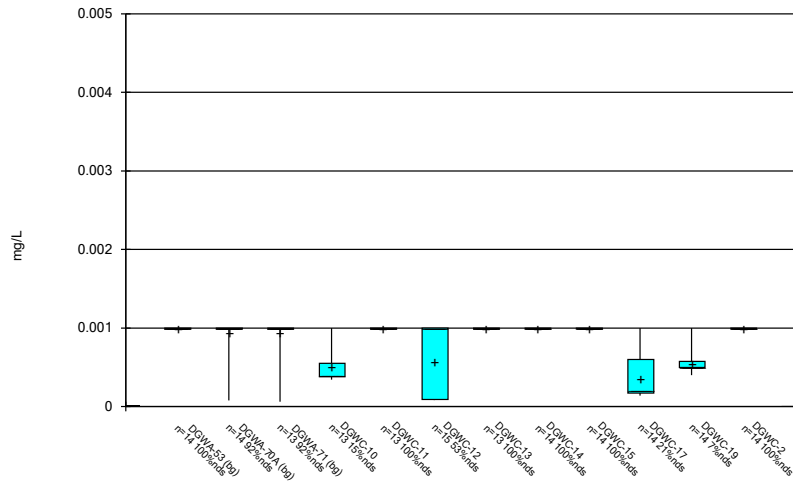
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Box & Whiskers Plot



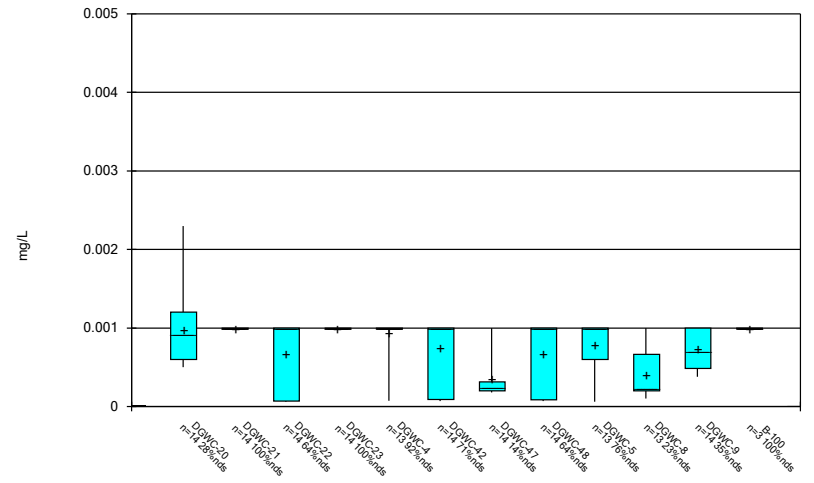
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



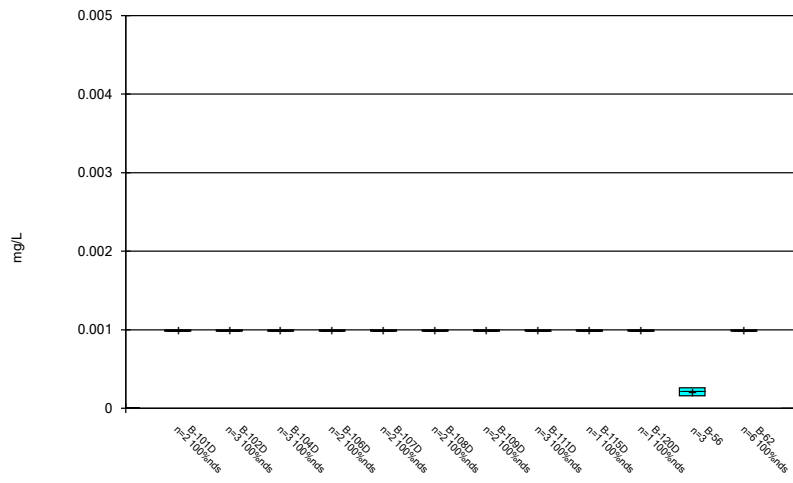
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



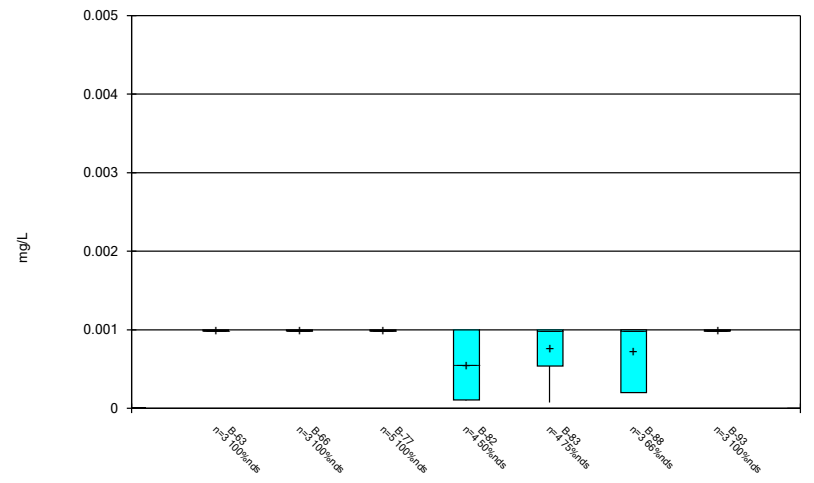
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Box & Whiskers Plot



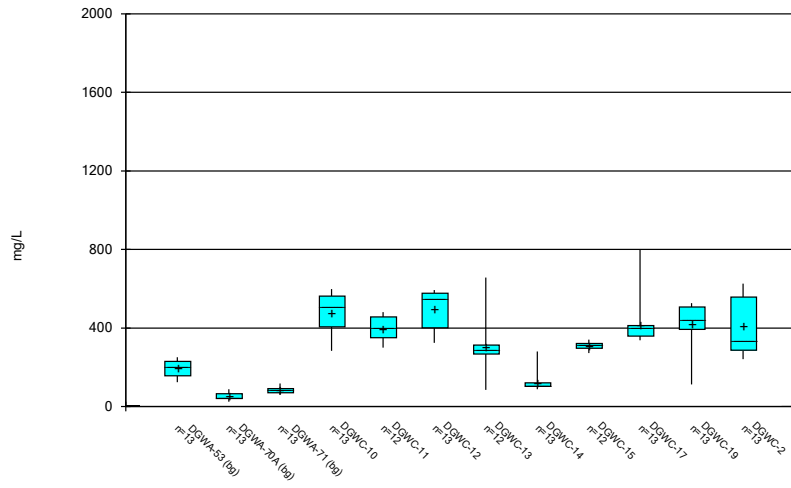
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



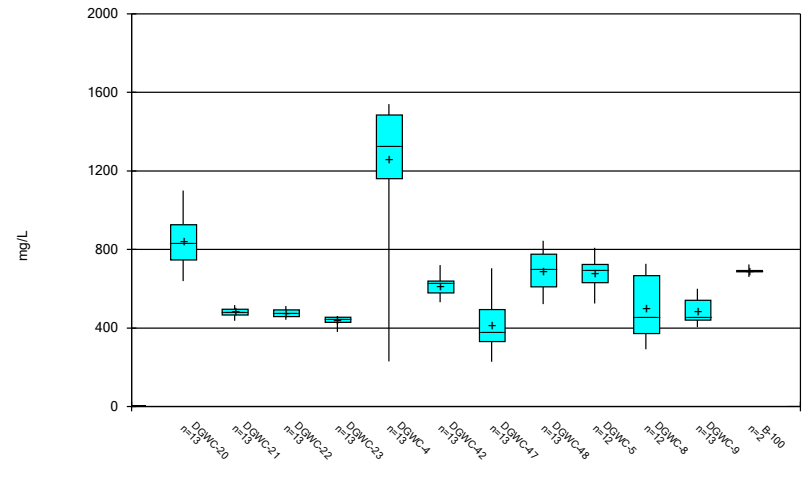
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



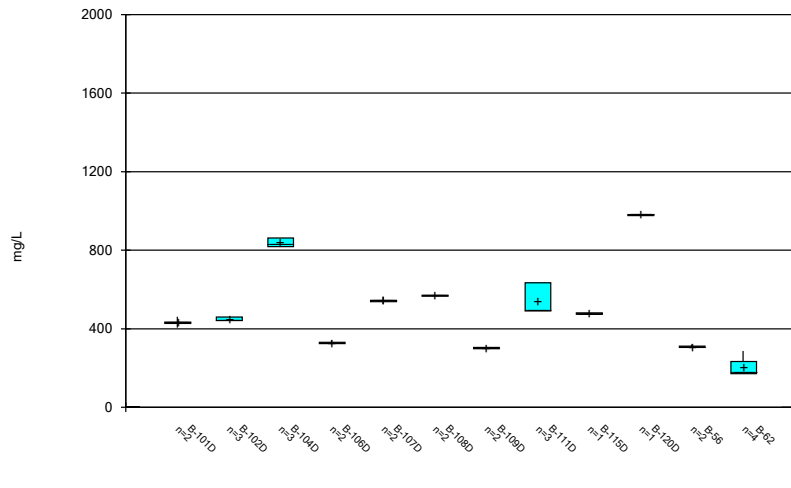
Constituent: Total Dissolved Solids [TDS] Analysis Run 7/7/2021 11:17 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



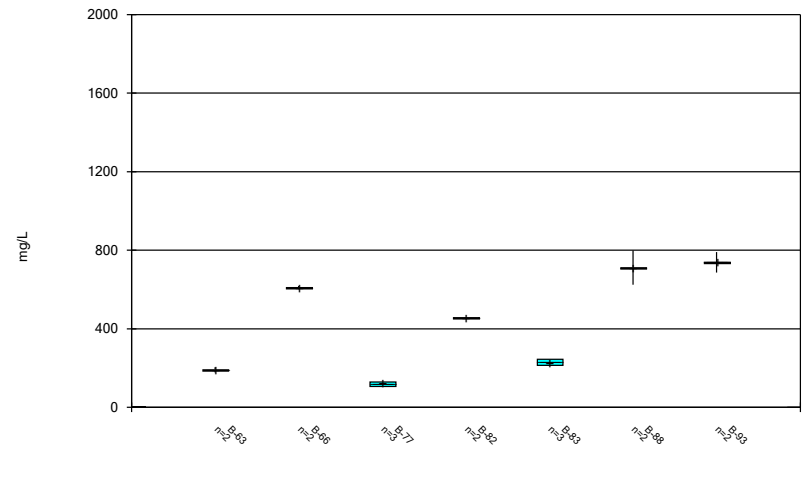
Constituent: Total Dissolved Solids [TDS] Analysis Run 7/7/2021 11:17 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/7/2021 11:17 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/7/2021 11:17 AM View: AP 234
 Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE C.

Outlier Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 11:59 AM

	DGWC-5 Barium (mg/L)	DGWC-12 Chloride (mg/L)	DGWA-70A Chromium (mg/L)	DGWA-70A Fluoride (mg/L)	DGWC-15 Lithium (mg/L)	DGWC-14 Sulfate (mg/L)	DGWA-53 TDS (mg/L)	DGWC-15 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 4/21/2021, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	3/4/2021	0.65	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	3/2/2021	1.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	3/3/2021	3.6	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	3/2/2021	0.58	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	3/2/2021	1.4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	3/3/2021	0.71	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	3/2/2021	2.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	3/2/2021	0.52	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	3/2/2021	3.4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	3/3/2021	5.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	3/3/2021	3.9	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	3/3/2021	4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	3/1/2021	4.7	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	3/3/2021	0.87	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-47	0.13	n/a	3/3/2021	0.17	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	3/3/2021	0.57	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	3/2/2021	4.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	3/2/2021	0.96	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-9	0.13	n/a	3/2/2021	0.77	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40	n/a	3/4/2021	75.8	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40	n/a	3/2/2021	65.3	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-12	40	n/a	3/3/2021	50.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40	n/a	3/2/2021	40.5	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40	n/a	3/2/2021	93.2	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-2	40	n/a	3/2/2021	44	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40	n/a	3/2/2021	74.7	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40	n/a	3/3/2021	82.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40	n/a	3/3/2021	62.3	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40	n/a	3/3/2021	68.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40	n/a	3/1/2021	322	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40	n/a	3/3/2021	66	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40	n/a	3/2/2021	114	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-9	40	n/a	3/2/2021	48.8	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	4.5	n/a	3/4/2021	7.2	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-11	4.5	n/a	3/2/2021	14.4	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-12	4.5	n/a	3/3/2021	10.3	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-13	4.5	n/a	3/2/2021	13.1	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-15	4.5	n/a	3/2/2021	22.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-17	4.5	n/a	3/3/2021	20.9	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-19	4.5	n/a	3/2/2021	27	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-20	4.5	n/a	3/2/2021	28	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-21	4.5	n/a	3/3/2021	19.7	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-22	4.5	n/a	3/3/2021	20.6	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-23	4.5	n/a	3/3/2021	14	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-4	4.5	n/a	3/1/2021	15	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-42	4.5	n/a	3/3/2021	20.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-48	4.5	n/a	3/3/2021	14.2	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-5	4.5	n/a	3/2/2021	9.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-8	4.5	n/a	3/2/2021	8.6	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-9	4.5	n/a	3/2/2021	8.4	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-10	0.42	n/a	3/4/2021	1.8	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	3/2/2021	1.4	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	3/3/2021	0.71	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	3/3/2021	0.67	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-9	0.42	n/a	3/2/2021	0.93	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
pH (SU)	DGWC-19	6.6	5.2	3/2/2021	4.84	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-20	6.6	5.2	3/2/2021	4.45	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-47	6.6	5.2	3/3/2021	3.98	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-48	6.6	5.2	3/3/2021	4.14	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-5	6.6	5.2	3/2/2021	5	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-9	6.6	5.2	3/2/2021	3.99	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-10	34	n/a	3/4/2021	240	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-11	34	n/a	3/2/2021	250	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-12	34	n/a	3/3/2021	203	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-13	34	n/a	3/2/2021	131	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-14	34	n/a	3/2/2021	42.6	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-15	34	n/a	3/2/2021	148	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-17	34	n/a	3/3/2021	237	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-19	34	n/a	3/2/2021	324	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-2	34	n/a	3/2/2021	112	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-20	34	n/a	3/2/2021	458	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-21	34	n/a	3/3/2021	264	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-22	34	n/a	3/3/2021	252	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-23	34	n/a	3/3/2021	221	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-4	34	n/a	3/1/2021	840	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-42	34	n/a	3/3/2021	329	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-47	34	n/a	3/3/2021	143	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-48	34	n/a	3/3/2021	312	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-5	34	n/a	3/2/2021	412	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-8	34	n/a	3/2/2021	152	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-9	34	n/a	3/2/2021	266	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-10	310	n/a	3/4/2021	430	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-11	310	n/a	3/2/2021	456	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-12	310	n/a	3/3/2021	325	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-17	310	n/a	3/3/2021	384	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-19	310	n/a	3/2/2021	513	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-20	310	n/a	3/2/2021	742	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-21	310	n/a	3/3/2021	459	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-22	310	n/a	3/3/2021	442	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-23	310	n/a	3/3/2021	425	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-4	310	n/a	3/1/2021	1140	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-42	310	n/a	3/3/2021	531	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-48	310	n/a	3/3/2021	521	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-5	310	n/a	3/2/2021	730	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-9	310	n/a	3/2/2021	449	39	4.589	0.9669	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 4/21/2021, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	3/4/2021	0.65	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	3/2/2021	1.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	3/3/2021	3.6	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	3/2/2021	0.58	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-14	0.13	n/a	3/2/2021	0.089	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	3/2/2021	1.4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	3/3/2021	0.71	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	3/2/2021	2.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	3/2/2021	0.52	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	3/2/2021	3.4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	3/3/2021	5.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	3/3/2021	3.9	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	3/3/2021	4	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	3/1/2021	4.7	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	3/3/2021	0.87	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-47	0.13	n/a	3/3/2021	0.17	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	3/3/2021	0.57	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	3/2/2021	4.3	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	3/2/2021	0.96	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-9	0.13	n/a	3/2/2021	0.77	38	n/a	n/a	23.68	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40	n/a	3/4/2021	75.8	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40	n/a	3/2/2021	65.3	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-12	40	n/a	3/3/2021	50.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40	n/a	3/2/2021	40.5	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-14	40	n/a	3/2/2021	11.4	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-15	40	n/a	3/2/2021	36	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-17	40	n/a	3/3/2021	14.3	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40	n/a	3/2/2021	93.2	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-2	40	n/a	3/2/2021	44	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40	n/a	3/2/2021	74.7	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40	n/a	3/3/2021	82.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40	n/a	3/3/2021	62.3	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40	n/a	3/3/2021	68.1	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40	n/a	3/1/2021	322	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-42	40	n/a	3/3/2021	38.8	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-47	40	n/a	3/3/2021	25.5	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40	n/a	3/3/2021	66	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40	n/a	3/2/2021	114	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-8	40	n/a	3/2/2021	35.6	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-9	40	n/a	3/2/2021	48.8	38	n/a	n/a	5.263	n/a	n/a	0.001173	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	4.5	n/a	3/4/2021	7.2	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-11	4.5	n/a	3/2/2021	14.4	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-12	4.5	n/a	3/3/2021	10.3	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-13	4.5	n/a	3/2/2021	13.1	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-14	4.5	n/a	3/2/2021	3.5	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-15	4.5	n/a	3/2/2021	22.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-17	4.5	n/a	3/3/2021	20.9	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-19	4.5	n/a	3/2/2021	27	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-2	4.5	n/a	3/2/2021	2.1	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-20	4.5	n/a	3/2/2021	28	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	DGWC-21	4.5	n/a	3/3/2021	19.7	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-22	4.5	n/a	3/3/2021	20.6	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-23	4.5	n/a	3/3/2021	14	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-4	4.5	n/a	3/1/2021	15	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-42	4.5	n/a	3/3/2021	20.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-47	4.5	n/a	3/3/2021	2.9	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-48	4.5	n/a	3/3/2021	14.2	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-5	4.5	n/a	3/2/2021	9.8	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-8	4.5	n/a	3/2/2021	8.6	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Chloride (mg/L)	DGWC-9	4.5	n/a	3/2/2021	8.4	40	1.631	0.2231	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Fluoride (mg/L)	DGWC-10	0.42	n/a	3/4/2021	1.8	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-11	0.42	n/a	3/2/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-12	0.42	n/a	3/3/2021	0.085J	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-13	0.42	n/a	3/2/2021	0.084J	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-14	0.42	n/a	3/2/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-15	0.42	n/a	3/2/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-17	0.42	n/a	3/3/2021	0.085J	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-19	0.42	n/a	3/2/2021	0.19	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-2	0.42	n/a	3/2/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	3/2/2021	1.4	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-21	0.42	n/a	3/3/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-22	0.42	n/a	3/3/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-23	0.42	n/a	3/3/2021	0.063J	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-4	0.42	n/a	3/1/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-42	0.42	n/a	3/3/2021	0.1ND	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	3/3/2021	0.71	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	3/3/2021	0.67	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-5	0.42	n/a	3/2/2021	0.15	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-8	0.42	n/a	3/2/2021	0.059J	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	DGWC-9	0.42	n/a	3/2/2021	0.93	45	n/a	n/a	51.11	n/a	n/a	0.0008842	NP Inter (NDs) 1 of 2
pH (SU)	DGWC-10	6.6	5.2	3/4/2021	5.27	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-11	6.6	5.2	3/2/2021	5.59	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-12	6.6	5.2	3/3/2021	6.13	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-13	6.6	5.2	3/2/2021	5.685	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-14	6.6	5.2	3/2/2021	5.75	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-15	6.6	5.2	3/2/2021	5.81	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-17	6.6	5.2	3/3/2021	5.23	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-19	6.6	5.2	3/2/2021	4.84	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-2	6.6	5.2	3/2/2021	6.01	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-20	6.6	5.2	3/2/2021	4.45	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-21	6.6	5.2	3/3/2021	5.63	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-22	6.6	5.2	3/3/2021	5.71	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-23	6.6	5.2	3/3/2021	5.85	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-4	6.6	5.2	3/1/2021	5.82	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-42	6.6	5.2	3/3/2021	5.3	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-47	6.6	5.2	3/3/2021	3.98	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-48	6.6	5.2	3/3/2021	4.14	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-5	6.6	5.2	3/2/2021	5	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-8	6.6	5.2	3/2/2021	6.6	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2
pH (SU)	DGWC-9	6.6	5.2	3/2/2021	3.99	47	5.901	0.3346	0	None	No	0.0001881	Param Inter 1 of 2

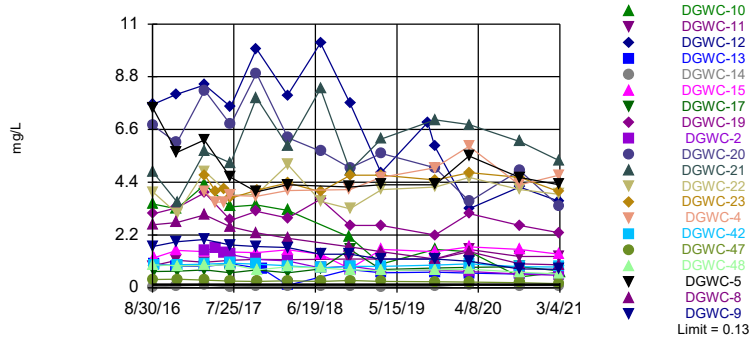
Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:03 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	DGWC-10	34	n/a	3/4/2021	240	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-11	34	n/a	3/2/2021	250	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-12	34	n/a	3/3/2021	203	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-13	34	n/a	3/2/2021	131	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-14	34	n/a	3/2/2021	42.6	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-15	34	n/a	3/2/2021	148	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-17	34	n/a	3/3/2021	237	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-19	34	n/a	3/2/2021	324	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-2	34	n/a	3/2/2021	112	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-20	34	n/a	3/2/2021	458	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-21	34	n/a	3/3/2021	264	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-22	34	n/a	3/3/2021	252	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-23	34	n/a	3/3/2021	221	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-4	34	n/a	3/1/2021	840	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-42	34	n/a	3/3/2021	329	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-47	34	n/a	3/3/2021	143	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-48	34	n/a	3/3/2021	312	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-5	34	n/a	3/2/2021	412	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-8	34	n/a	3/2/2021	152	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate (mg/L)	DGWC-9	34	n/a	3/2/2021	266	40	2.59	1.452	10	None	sqrt(x)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-10	310	n/a	3/4/2021	430	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-11	310	n/a	3/2/2021	456	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-12	310	n/a	3/3/2021	325	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-13	310	n/a	3/2/2021	256	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-14	310	n/a	3/2/2021	105	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-15	310	n/a	3/2/2021	272	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-17	310	n/a	3/3/2021	384	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-19	310	n/a	3/2/2021	513	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-2	310	n/a	3/2/2021	241	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-20	310	n/a	3/2/2021	742	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-21	310	n/a	3/3/2021	459	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-22	310	n/a	3/3/2021	442	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-23	310	n/a	3/3/2021	425	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-4	310	n/a	3/1/2021	1140	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-42	310	n/a	3/3/2021	531	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-47	310	n/a	3/3/2021	228	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-48	310	n/a	3/3/2021	521	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-5	310	n/a	3/2/2021	730	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-8	310	n/a	3/2/2021	291	39	4.589	0.9669	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
TDS (mg/L)	DGWC-9	310	n/a	3/2/2021	449	39	4.589	0.9669	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

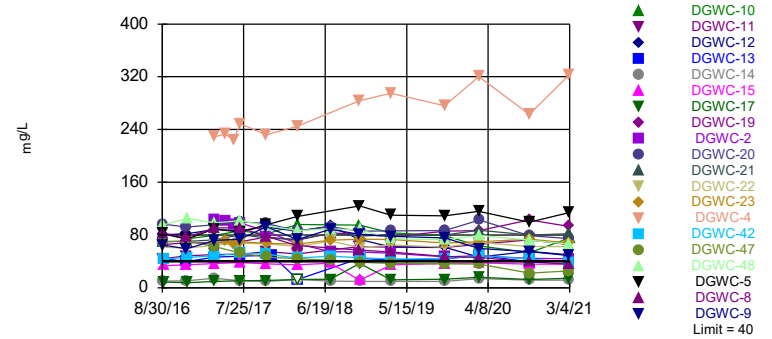


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 23.68% NDs. Annual per-constituent alpha = 0.04586. Individual comparison alpha = 0.001173 (1 of 2). Comparing 20 points to limit.

Constituent: Boron Analysis Run 4/21/2021 10:01 AM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-19, DGWC-2, DGWC-20, DGWC-21, DGWC-22, DGWC-23...

Prediction Limit
Interwell Non-parametric

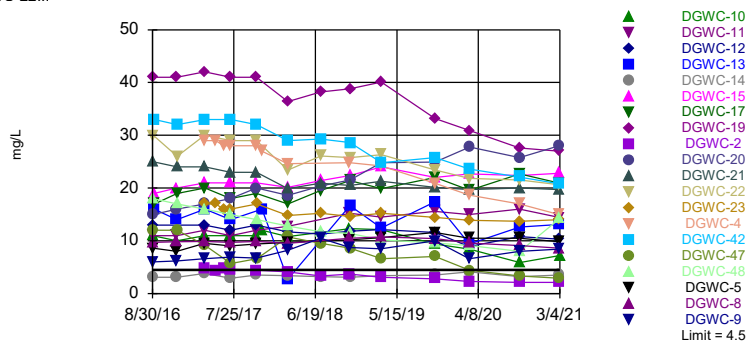


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 5.263% NDs. Annual per-constituent alpha = 0.04586. Individual comparison alpha = 0.001173 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium Analysis Run 4/21/2021 10:01 AM View: Interwell PLs 2-3-4
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

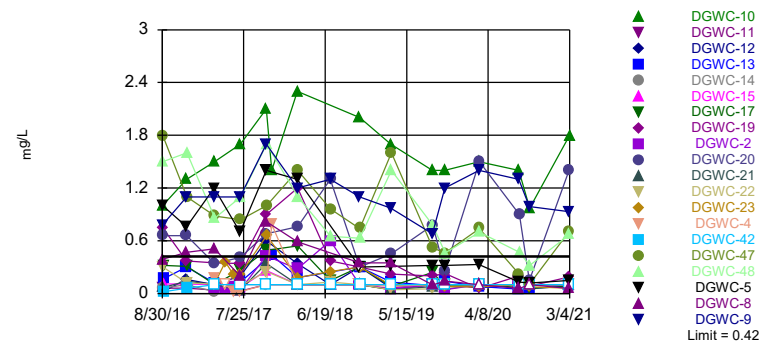


Background Data Summary (based on square root transformation): Mean=1.631, Std. Dev.=0.2231, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.938, critical = 0.919. Kappa = 2.248 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Chloride Analysis Run 4/21/2021 10:01 AM View: Interwell PLs 2-3-4
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

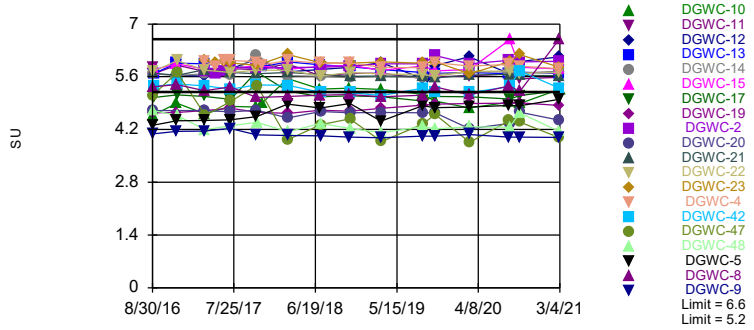


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 45 background values. 51.11% NDs. Annual per-constituent alpha = 0.03477. Individual comparison alpha = 0.0008842 (1 of 2). Comparing 20 points to limit.

Constituent: Fluoride Analysis Run 4/21/2021 10:01 AM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limits: DGWC-19, DGWC-20, DGWC-47, DGWC-48, DGWC-5, DGWC-9

Prediction Limit
Interwell Parametric

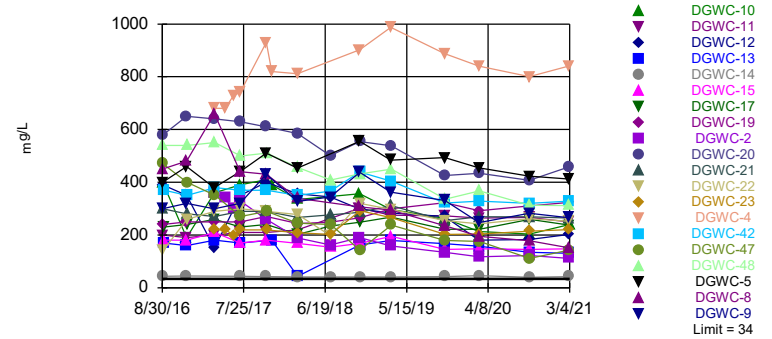


Background Data Summary: Mean=5.901, Std. Dev.=0.3346, n=47. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9288, critical = 0.928. Kappa = 2.22 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001881. Comparing 20 points to limit.

Constituent: pH Analysis Run 4/21/2021 10:01 AM View: Interwell PLs 2-3-4
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

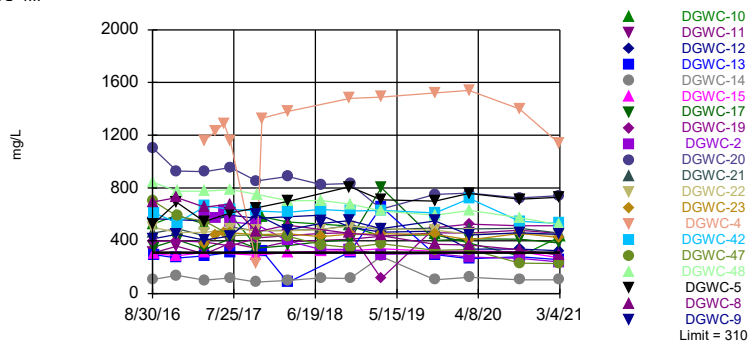


Background Data Summary (based on square root transformation): Mean=2.59, Std. Dev.=1.452, n=40, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9354, critical = 0.919. Kappa = 2.248 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Sulfate Analysis Run 4/21/2021 10:01 AM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, 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=4.589, Std. Dev.=0.9669, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9309, critical = 0.917. Kappa = 2.255 (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: TDS Analysis Run 4/21/2021 10:01 AM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-4	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	0.0097 (J)	4.01	0.0612		
3/29/2017					
3/30/2017				1.56	4.68
3/31/2017					
5/11/2017			0.0805	1.65	
5/12/2017	0.0082 (J)	3.58			4.03
5/15/2017					
6/15/2017		3.58	0.0725	1.44	4.11
6/16/2017	0.0085 (J)				
7/11/2017	0.0077 (J)	3.85		1.39	
7/12/2017			0.0735		3.74
7/13/2017					
8/8/2017					
10/24/2017	0.0083 (J)	3.82	0.077	1.18	
10/25/2017					
10/26/2017					4.07
11/15/2017					
2/27/2018	0.0069 (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	0.0068 (J)	4.6		0.72	
3/13/2019			0.08		
3/14/2019					4.7
9/17/2019					
10/15/2019	0.0054 (J)	5			
10/16/2019			0.059		
10/17/2019				0.73	
10/18/2019					4.5
3/2/2020	0.01 (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	0.0054 (J)	4.7			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-4	DGWA-53 (bg)	DGWC-2	DGWC-23
3/2/2021				0.52	
3/3/2021					4
3/4/2021					
3/12/2021			0.064		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-14	DGWC-11	DGWC-12	DGWC-47	DGWC-48
8/30/2016	82.7	64.9							
8/31/2016			82.6	81.7	9.95	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	73.9	74.2	10.4	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			95.6		9.67		92.1		
10/26/2017								46.7	94
11/15/2017									
2/27/2018	64.2	73.1	108	96.2	<25	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	124	94.8		62.6			
11/7/2018					9.7		73.3	38.6	88
11/8/2018									
3/12/2019	54.3	78.1	110	83.5		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		109		9.4				
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	99.2		11.6	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	114		11.4	65.3			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	65.6								
9/2/2016		70.2	61.6	96.3					
9/6/2016					33.6	44			
9/7/2016							43.6	8.61	
12/6/2016									
12/7/2016	68.3			91.9	34.7	39.8			
12/8/2016		70.1	60.1				45.8	7.92	
3/28/2017									229
3/29/2017	68		64.7	95.7					
3/30/2017		72.5			36.9	46.3		9.56	
3/31/2017							48.3		
5/11/2017									
5/12/2017									233
5/15/2017									
6/15/2017									224
6/16/2017									
7/11/2017									249
7/12/2017	70	80.4		100	38.4	47.8		10.4	
7/13/2017			67.2				52.3		
8/8/2017									
10/24/2017									232
10/25/2017	77	75.6	66.8	97.3	36.2		50.9	10.9	
10/26/2017									
11/15/2017						49.3			
2/27/2018									245
2/28/2018	72	73.2	62.3	86.3	35	<25	45.1	<25	
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	82.7	82.3		92.4	37.5		47.8	13 (J)	
7/12/2018			71						
11/6/2018									284
11/7/2018	81.7	78.5	60.9	85.9	11.4	44.8	45.5	37	
11/8/2018									
3/12/2019									295
3/13/2019	76.9	79.9		86.4		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		79.8		86.9	37		44.1		
10/18/2019			61.7					12.9	
3/2/2020									320
3/3/2020	86.8	87.4	68.7		37.8	49.3			
3/4/2020				103			48.8	15.8	
3/9/2020									
9/22/2020	103			79.2			43.8		263
9/23/2020					35.6	39			
9/24/2020		80	62.6					12.7	
3/1/2021									322
3/2/2021	93.2			74.7	36	40.5			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	30.8	8.31	5.14		
3/29/2017					
3/30/2017				103	68.1
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	96.2	65.9
6/16/2017		7.66			
7/11/2017		7.71	5.96	98.4	
7/12/2017	40.3				70
7/13/2017					
8/8/2017			5.2		
10/24/2017	30.3	6.86	4.93	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		5.7	5.5	54.5	
11/7/2018	28.6				
11/8/2018					73.5
3/12/2019		5.5	5.1	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		5.8	5.3		
3/3/2020				48.4	
3/4/2020					69.8
3/9/2020	23.7				
9/22/2020	15.5	5.4	5		
9/23/2020				44.4	
9/24/2020					73.7
3/1/2021		5.9	4.1		
3/2/2021				44	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLS 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-2	DGWC-23
3/3/2021					68.1
3/4/2021					
3/12/2021	18.4				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-5	DGWC-10	DGWC-11	DGWC-48	DGWC-12	DGWC-47
8/30/2016	9.7	6							
8/31/2016			3.1	8.6	11	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	8	10	11			
12/7/2016								20 (o)	
12/8/2016							17		12
3/28/2017		6.6		9.5					
3/29/2017	9.9		3.8		11	12		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			11	12			
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	9.7	10.8	12.7		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		10.2	12.3	15.2			
11/7/2018			3.1				11.4	11.8	8.6
11/8/2018									
3/12/2019	10.7	8.5		10.6	12.1	14.5		12.1	
3/13/2019			3.4						
3/14/2019							10.2		6.6
10/15/2019					9.4	15.6		11.6	
10/16/2019	10.4		3.5	11.6					
10/17/2019		10							7
10/18/2019							9.6		
3/2/2020				10.5		15		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	10.5		16		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	9.8		14.4			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	41								
9/2/2016		30	25	15					
9/6/2016					16	19			
9/7/2016							33	17	
12/6/2016									
12/7/2016	41			16	14	20			
12/8/2016		26	24				32	19	
3/28/2017									3.6
3/29/2017	42	30		17					
3/30/2017			24		16	21		20	
3/31/2017							33		
5/11/2017									
5/12/2017									3.8
5/15/2017									
6/15/2017									
6/16/2017									3.4
7/11/2017									3.1
7/12/2017	41		23	18	14	21		18	
7/13/2017		29					33		
8/8/2017									
10/24/2017									3.2
10/25/2017	41	29	23	20		21	32	19	
10/26/2017									
11/15/2017					16				3.1
2/27/2018									3.2
2/28/2018	36.4	23.4	19.9	18.6	2.7	20.1	29	17	
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	38.2		20.9	20.4		21.4	29.3	19.5	
7/12/2018		26.1							
11/6/2018									2.6
11/7/2018	38.8	25.8	20.5	21.5	16.7	22.4	28.6	21.4	
11/8/2018									
3/12/2019									3.3
3/13/2019	40.1		21.3	24.8	12.4			19.9	
3/14/2019		26.3				24	24.8		
10/15/2019									3.3
10/16/2019	33.2				17.4				
10/17/2019			20.1	24.9		22	25.8		
10/18/2019		23.4						22	
3/2/2020									3
3/3/2020	30.9	21.8	19.7		9.4	22.7			
3/4/2020				27.8			23.6	19.6	
3/9/2020									
9/22/2020	27.6			25.8			22.1		5.2
9/23/2020					12.6	22.4			
9/24/2020		21.5	20					22.7	
3/1/2021									3.9
3/2/2021	27			28	13.1	22.8			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWC-4	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	3.8	29	3.7		
3/29/2017					
3/30/2017				4.8	17
3/31/2017					
5/11/2017			2.3	4.4	
5/12/2017		29			17
5/15/2017	2.2				
6/15/2017	2	28	2.6	4.8	16
6/16/2017					
7/11/2017	2.1	28		4.6	
7/12/2017			2.3		16
7/13/2017					
8/8/2017	2.2				
10/24/2017	2.4	28	2.7	4.4	
10/25/2017					
10/26/2017					17
11/15/2017		27	2.2		
2/27/2018	2.5	24.6		4.1	
2/28/2018					
3/1/2018					14.8
3/2/2018					
3/8/2018			2.4		
7/11/2018				3.3	
7/12/2018			2.2		15.2
11/6/2018	2.3	24.8		3.7	
11/7/2018			2.3		
11/8/2018					14.6
3/12/2019	2.5	24.2		3.1	
3/13/2019			3.6		
3/14/2019					15.2
10/15/2019	2.2	20.9			
10/16/2019			2		
10/17/2019				2.8	
10/18/2019					14.4
3/2/2020	1.9	18.7			
3/3/2020				2.3	
3/4/2020					13.9
3/9/2020			1.8		
9/22/2020	1.9	17	1.6		
9/23/2020				2.1	
9/24/2020					13.7
3/1/2021	1.9	15			
3/2/2021				2.1	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWC-4	DGWA-53 (bg)	DGWC-2	DGWC-23
3/3/2021					14
3/4/2021					
3/12/2021			2		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-11	DGWC-14	DGWC-10	DGWC-48	DGWC-19	DGWC-47
8/30/2016	0.39	0.78							
8/31/2016			1	0.06 (J)	0.06 (J)	1			
9/1/2016							1.5	0.75	1.8
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	0.47	1.1	0.76	0.06 (J)	0.1 (J)	1.3			
12/7/2016								0.37	
12/8/2016							1.6		1.1
3/28/2017		1.1	1.2						
3/29/2017	0.51			0.04 (J)	0.02 (J)	1.5		0.35	
3/30/2017							0.86		
3/31/2017									0.88
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	0.2 (J)	1.1	0.7						
7/12/2017				0.03 (J)	<0.1	1.7		0.34	
7/13/2017							1.1		0.84
8/8/2017									
10/24/2017	0.82	1.7		<0.1		2.1			
10/25/2017			1.4		<0.1			0.9	
10/26/2017							1.7		1
11/15/2017						1.4			
2/27/2018	0.59	1.2	1.3	<0.1	<0.1	2.3			
2/28/2018								1.2	
3/1/2018									1.4
3/2/2018							1.1		
3/8/2018									
7/11/2018		1.3			<0.1			0.37	
7/12/2018							0.65		0.96
11/6/2018	0.35	1.1	<0.3 (J)	<0.1		2			
11/7/2018					<0.1		0.63	<0.3 (J)	0.74
11/8/2018									
3/12/2019	0.35	0.97	0.31	0.052 (J)		1.7			
3/13/2019					0.042 (J)			0.22 (J)	
3/14/2019							1.4		1.6
8/27/2019		0.68	0.32	<0.1	<0.1	1.4			
8/28/2019	0.098 (J)							0.2	
8/29/2019							0.78		0.52
10/15/2019				<0.1		1.4			
10/16/2019	0.14 (J)		0.32		0.052 (J)			0.23 (J)	
10/17/2019		1.2							0.46
10/18/2019							0.46		
3/2/2020			0.33	0.064 (J)					
3/3/2020	<0.1	1.4			<0.1	1.5		0.056 (J)	
3/4/2020							0.7		0.74
3/9/2020									
8/11/2020		1.3		<0.1	<0.1	1.4		0.2	
8/12/2020	0.056 (J)		0.13						0.22

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-22	DGWC-20	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	0.02 (J)								
9/2/2016		0.3	0.66	0.07 (J)					
9/6/2016					0.11 (J)	0.17 (J)			
9/7/2016							0.02 (J)	0.32	
12/6/2016									
12/7/2016	0.16 (J)		0.66		0.11 (J)	0.3			
12/8/2016		0.12 (J)		0.14 (J)			0.06 (J)	0.31	
3/28/2017									0.12 (J)
3/29/2017	0.1 (J)	0.11 (J)	0.34						
3/30/2017				<0.1	<0.1	0.12 (J)		0.1 (J)	
3/31/2017							<0.1		
5/11/2017									0.07 (J)
5/12/2017									
5/15/2017									
6/15/2017									0.19 (J)
6/16/2017									
7/11/2017									
7/12/2017	0.2 (J)		0.41	0.04 (J)	0.07 (J)	0.13 (J)		0.27 (J)	0.1 (J)
7/13/2017		0.09 (J)					<0.1		
8/8/2017									
10/24/2017									0.06 (J)
10/25/2017	0.6	0.25 (J)	0.68	0.34	0.26 (J)		<0.1	0.49	
10/26/2017									
11/15/2017						0.44			0.05 (J)
2/27/2018	0.34								
2/28/2018		<0.1	0.76	<0.1	<0.1	0.18	<0.1	0.54	
3/1/2018									
3/2/2018									
3/8/2018									<0.1
7/11/2018	<0.1		1.3	<0.1	<0.1		<0.1	0.15 (J)	
7/12/2018		0.13 (J)							0.071 (J)
11/6/2018									
11/7/2018	<0.3 (J)	<0.1	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.1	<0.3 (J)	<0.1
11/8/2018									
3/12/2019	0.065 (J)								
3/13/2019			0.45	0.043 (J)		0.13 (J)		0.084 (J)	0.13 (J)
3/14/2019		0.042 (J)			0.057 (J)		<0.1		
8/27/2019	<0.1							0.24 (J)	
8/28/2019					<0.1	0.091 (J)	<0.1		0.42
8/29/2019		0.054 (J)	0.78	0.079 (J)					
10/15/2019	<0.1								
10/16/2019						0.14 (J)			0.11 (J)
10/17/2019			0.26 (J)	<0.1	0.079 (J)		<0.1		
10/18/2019		<0.1						0.086 (J)	
3/2/2020	0.071 (J)								
3/3/2020		<0.1		<0.1	<0.1	0.078 (J)			
3/4/2020			1.5				<0.1	<0.1	
3/9/2020									0.1 (J)
8/11/2020	<0.1								
8/12/2020						0.051 (J)			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	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	0.17 (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				0.06 (J)	
5/12/2017	<0.1	<0.1	0.36		
5/15/2017					0.005 (J)
6/15/2017	0.02 (J)		0.21 (J)	0.07 (J)	0.02 (J)
6/16/2017		0.008 (J)			
7/11/2017	0.02 (J)	0.007 (J)		0.04 (J)	0.06 (J)
7/12/2017			0.22 (J)		
7/13/2017					
8/8/2017					0.04 (J)
10/24/2017	<0.1	<0.1		0.43	<0.1
10/25/2017					
10/26/2017			0.66		
11/15/2017	0.79	<0.1			
2/27/2018	<0.1	<0.1		0.28	<0.1
2/28/2018					
3/1/2018			0.18		
3/2/2018					
3/8/2018					
7/11/2018				0.6	
7/12/2018			0.25 (J)		
11/6/2018	<0.1	<0.1		<0.1	<0.1
11/7/2018					
11/8/2018			<0.3 (J)		
3/12/2019	0.082 (J)	<0.1		0.052 (J)	0.039 (J)
3/13/2019					
3/14/2019			0.092 (J)		
8/27/2019	<0.1	<0.1		<0.1	<0.1
8/28/2019					
8/29/2019			0.095 (J)		
10/15/2019	<0.1	<0.1			<0.1
10/16/2019					
10/17/2019				0.042 (J)	
10/18/2019			0.079 (J)		
3/2/2020	<0.1	<0.1			<0.1
3/3/2020				<0.1	
3/4/2020			0.075 (J)		
3/9/2020					
8/11/2020		<0.1		<0.1	<0.1
8/12/2020	<0.1				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/21/2021 10:03 AM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/13/2020			0.1		
8/14/2020					
9/22/2020	<0.1	<0.1			<0.1
9/23/2020				<0.1	
9/24/2020			0.075 (J)		
3/1/2021	<0.1	<0.1			<0.1
3/2/2021				<0.1	
3/3/2021			0.063 (J)		
3/4/2021					
3/12/2021					

Prediction Limit

Constituent: pH (SU) Analysis Run 4/21/2021 10:04 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (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	6.29	5.94			
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	5.51	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 (D)				

Prediction Limit

Constituent: pH (SU) Analysis Run 4/21/2021 10:04 AM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (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	6.43	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 (D)		
3/3/2021				5.85 (D)	
3/4/2021					
3/12/2021	6.38				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/21/2021 10:04 AM View: Interwell PLs 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-10	DGWC-5	DGWC-14	DGWC-11	DGWC-47	DGWC-12	DGWC-48
8/30/2016	300	450							
8/31/2016			400	400	44	200			
9/1/2016							470	390	540
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	320	480	190	460	45	190			
12/7/2016								350	
12/8/2016							400		540
3/28/2017	300			380					
3/29/2017		660	360		81 (o)	200		150	
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	320	440		440					
7/12/2017			390		44	210		350	
7/13/2017							270		500
8/8/2017									
10/24/2017	430	430	410			210			
10/25/2017				510	42			400	
10/26/2017							290		510
11/15/2017			390						
2/27/2018	327	340	335	453	41	220		356	
2/28/2018									
3/1/2018							245		
3/2/2018									456
3/8/2018									
7/11/2018	344				40.6			344	
7/12/2018							240		409
11/6/2018	438	307	356	556		302			
11/7/2018					41.3		143	298	432
11/8/2018									
3/12/2019	362	295	297	484		275		284	
3/13/2019					41.2				
3/14/2019							238		450
10/15/2019			263			273		270	
10/16/2019		235		493	42.1				
10/17/2019	331						179		
10/18/2019									336
3/2/2020				455		264		181	
3/3/2020	247	195	213		45.5				
3/4/2020							176		368
3/9/2020									
9/22/2020	282			423	40.2	267		183	
9/23/2020		178					111		313
9/24/2020			204						
3/1/2021									
3/2/2021	266	152		412	42.6	250			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/21/2021 10:04 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	240								
9/2/2016		580	300	140					
9/6/2016					180	170			
9/7/2016							370	230	
12/6/2016									
12/7/2016	250	650			180	160			
12/8/2016			280	260			350	240	
3/28/2017									680
3/29/2017	250	640		290					
3/30/2017			270		210	180		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	250	630	290		170	170		230	
7/13/2017				300			370		
8/8/2017									
10/24/2017									930
10/25/2017	270	610	290	290	180		370	240	
10/26/2017									
11/15/2017						180			820
2/27/2018									811
2/28/2018	244	584	267	278	168	43.5	350	203	
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	249	501	277		154		366	234	
7/12/2018				197					
11/6/2018									902
11/7/2018	266	554	286	320	168	162	439	248	
11/8/2018									
3/12/2019									987
3/13/2019	299	539	312			179		268	
3/14/2019				297	195		404		
10/15/2019									888
10/16/2019	323					167			
10/17/2019		426	255		146		321		
10/18/2019				254				222	
3/2/2020									840
3/3/2020	292		269	242	148	157			
3/4/2020		434					329	222	
3/9/2020									
9/22/2020	310	408					320		800
9/23/2020					146	134			
9/24/2020			269	262				259	
3/1/2021									840
3/2/2021	324	458			148	131			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/21/2021 10:04 AM View: Interwell PLs 2-3-4
 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	49	2.7	17		
3/29/2017					
3/30/2017				220	360
3/31/2017					
5/11/2017	21				340
5/12/2017			17	220	
5/15/2017		1			
6/15/2017	16	0.86 (J)		200	300
6/16/2017			11		
7/11/2017		1.4	11		330
7/12/2017	10			220	
7/13/2017					
8/8/2017		1.5			
10/24/2017	15	1.4	9.6		260
10/25/2017					
10/26/2017				220	
11/15/2017	3.8		7.8		
2/27/2018		0.54 (J)	7.4		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		<1 (J)	7.3		190
11/7/2018	12.8				
11/8/2018				292	
3/12/2019		0.35 (J)	7		159
3/13/2019	23.7				
3/14/2019				266	
10/15/2019		0.16 (J)	7.4		
10/16/2019	15.1				
10/17/2019					134
10/18/2019				203	
3/2/2020		<1	8.5		
3/3/2020					118
3/4/2020				204	
3/9/2020	9.5				
9/22/2020	13.5	<1	6.5		
9/23/2020					122
9/24/2020				215	
3/1/2021		<1	5.2		
3/2/2021					112

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/21/2021 10:04 AM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
3/3/2021				221	
3/4/2021					
3/12/2021	8.8				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/21/2021 10:04 AM View: Interwell PLs 2-3-4

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-11	DGWC-10	DGWC-5	DGWC-48	DGWC-19	DGWC-12
8/30/2016	693	414							
8/31/2016			106	307	525	524			
9/1/2016							845	396	568
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	727	449	138	358	595	690			
12/7/2016								400	559
12/8/2016							777		
3/28/2017		404				545			
3/29/2017	654		102	300	525			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			118	382	598			360	594
7/13/2017							789		
8/8/2017									
10/24/2017	468	599		342	353				
10/25/2017			88			650		423	571
10/26/2017							753		
11/15/2017					582				
2/27/2018	520	482	99	393	542	698			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		412	512	809			
11/7/2018			113				678	461	504
11/8/2018									
3/12/2019	438	493		433	436	711			465
3/13/2019			280					113	
3/14/2019							625		
10/15/2019				461	447				472
10/16/2019	374		104			702		500	
10/17/2019		550							
10/18/2019							593		
3/2/2020				458		759			338
3/3/2020	369	444	123		382			526	
3/4/2020							630		
3/9/2020									
9/22/2020		461	105	481		716		513	338
9/23/2020	333						575		
9/24/2020					283				
3/1/2021									
3/2/2021	291	449	105	456		730		513	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/21/2021 10:04 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-70A (bg)
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									39
3/29/2017		923	462						
3/30/2017				436	287	312		338	
3/31/2017	545						661		
5/11/2017									
5/12/2017									
5/15/2017									88
6/15/2017									65
6/16/2017									
7/11/2017									25
7/12/2017		956		505	312	490 (o)		417	
7/13/2017	441		492				641		
8/8/2017									53
10/24/2017									49
10/25/2017		854	477	474		290	626	343	
10/26/2017	444								
11/15/2017					325				
2/27/2018									43
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									65
11/7/2018	348	834	511	516	314	325	626	408	
11/8/2018									
3/12/2019									43
3/13/2019		639		486	656			802	
3/14/2019	378		491			340	630		
10/15/2019									70
10/16/2019					296				
10/17/2019	327	751		498		319	612		
10/18/2019			480					403	
3/2/2020									52
3/3/2020			452	490	263	323			
3/4/2020	334	761					721	414	
3/9/2020									
9/22/2020		724					547		46
9/23/2020	229				278	317			
9/24/2020			455	494				411	
3/1/2021									25
3/2/2021		742			256	272			

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/21/2021 10:04 AM View: Interwell PLs 2-3-4
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	1160	90	202		
3/29/2017					
3/30/2017				580	380
3/31/2017					
5/11/2017			241	573	
5/12/2017	1230	92			438
5/15/2017					
6/15/2017	1290		251	626	458
6/16/2017		100			
7/11/2017	1160	59		542	
7/12/2017			218		461
7/13/2017					
8/8/2017					
10/24/2017	229	117	671 (o)	523	
10/25/2017					
10/26/2017					446
11/15/2017	1330	90	241		
2/27/2018	1380	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	1480	85		334	
11/7/2018			200		
11/8/2018					450
3/12/2019	1490	74		297	
3/13/2019			201		
3/14/2019					453
10/15/2019	1520	89			
10/16/2019			126		
10/17/2019				302	
10/18/2019					448
3/2/2020	1540	67			
3/3/2020				277	
3/4/2020					408
3/9/2020			171		
9/22/2020	1400	74	142		
9/23/2020				267	
9/24/2020					456
3/1/2021	1140	62			
3/2/2021				241	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/21/2021 10:04 AM View: Interwell PLs 2-3-4
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23
3/3/2021					425
3/4/2021					
3/12/2021			124		

FIGURE E.

Trend Test Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWC-10	-0.7511	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.05061	52	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.084	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.09382	-46	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.2874	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.8052	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.3407	45	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-47	-0.0327	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.07622	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.4548	-57	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-9	-0.2726	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-5.014	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	5.511	54	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.414	64	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-2	-16.96	-74	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	2.817	46	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-4	24.63	44	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-8.047	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	8.557	40	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	1.233	44	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-12	-0.6386	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.7104	56	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-3.213	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	3.056	74	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-1.211	-59	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.096	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.7796	-59	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.489	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.91	-66	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-48	-2.411	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.5523	41	38	Yes	12	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-47	-0.2294	-62	-53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-48	-0.2143	-58	-53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-19	0.06481	72	53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-5	0.1224	62	53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-9	-0.02181	-61	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	-0.3043	-45	-43	Yes	13	30.77	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-1.74	-61	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-8.595	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	18.71	51	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-65.93	-70	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-20	-50.74	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-65.34	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-56.1	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-78.21	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-53 (bg)	-28.3	-53	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-11	34.89	50	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-12	-56.94	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-19	32.2	47	43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-20	-60.85	-58	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-48	-66.66	-68	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-5	38.2	44	38	Yes	12	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWA-53 (bg)	-0.001444	-11	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-70A (bg)	0	8	43	No	13	53.85	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-71 (bg)	-0.0006707	-11	-38	No	12	16.67	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-10	-0.7511	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.05061	52	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.084	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.09382	-46	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-15	0.01697	13	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.04246	36	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-19	-0.2027	-37	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.2874	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.8052	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-21	0.35	22	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-22	0.06786	10	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-23	0.08846	16	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.3407	45	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-42	-0.01525	-25	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-47	-0.0327	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.07622	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-5	-0.2495	-17	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.4548	-57	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-9	-0.2726	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-5.014	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-70A (bg)	-0.2572	-31	-43	No	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.7909	-36	-38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-10	-2.204	-18	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	5.511	54	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-12	-9.486	-40	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-13	-0.7677	-7	-38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.414	64	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-2	-16.96	-74	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-20	-4.138	-30	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	2.817	46	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-22	0.2008	9	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-23	0.7517	19	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-4	24.63	44	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-8.047	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	8.557	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-9	-3.848	-12	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-53 (bg)	-0.2102	-48	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-70A (bg)	-0.08674	-23	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-71 (bg)	0	-1	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-10	-0.6439	-24	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	1.233	44	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-12	-0.6386	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-13	-0.4029	-10	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.7104	56	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-17	0.7896	42	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-3.213	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	3.056	74	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-1.211	-59	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.096	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.7796	-59	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.489	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.91	-66	-43	Yes	13	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	DGWC-48	-2.411	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.5523	41	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-8	-0.1166	-12	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-9	0.6663	35	43	No	13	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-53 (bg)	-0.002153	-6	-58	No	16	12.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-70A (bg)	0.01295	43	48	No	14	64.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-71 (bg)	0	29	53	No	15	80	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-10	0	1	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-20	0.05623	18	53	No	15	6.667	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-47	-0.2294	-62	-53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-48	-0.2143	-58	-53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-9	0	1	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-53 (bg)	0.02687	7	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-70A (bg)	-0.02327	-12	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWA-71 (bg)	0.04216	34	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-19	0.06481	72	53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-20	-0.03153	-47	-48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-47	-0.2155	-45	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-48	-0.04228	-28	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-5	0.1224	62	53	Yes	15	0	n/a	n/a	0.01	NP
pH (SU)	DGWC-9	-0.02181	-61	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-53 (bg)	-2.119	-29	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	-0.3043	-45	-43	Yes	13	30.77	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-1.74	-61	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-10	-43.7	-39	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-11	18.75	34	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-12	-41.74	-41	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-13	-6.811	-26	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-14	-0.5728	-13	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-8.595	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-17	0.5668	3	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	18.71	51	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-65.93	-70	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-20	-50.74	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-21	-4.956	-30	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-22	-1.843	-5	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-23	0	4	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-4	41.66	32	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-42	-10.69	-27	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-65.34	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-56.1	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-5	4.163	4	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-78.21	-60	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-9	-4.792	-4	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-53 (bg)	-28.3	-53	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-70A (bg)	-3.954	-11	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWA-71 (bg)	-6.025	-36	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-10	-46.06	-41	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-11	34.89	50	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-12	-56.94	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-17	10.22	23	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-19	32.2	47	43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-20	-60.85	-58	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-21	5.323	17	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-22	-6.297	-24	-43	No	13	0	n/a	n/a	0.01	NP

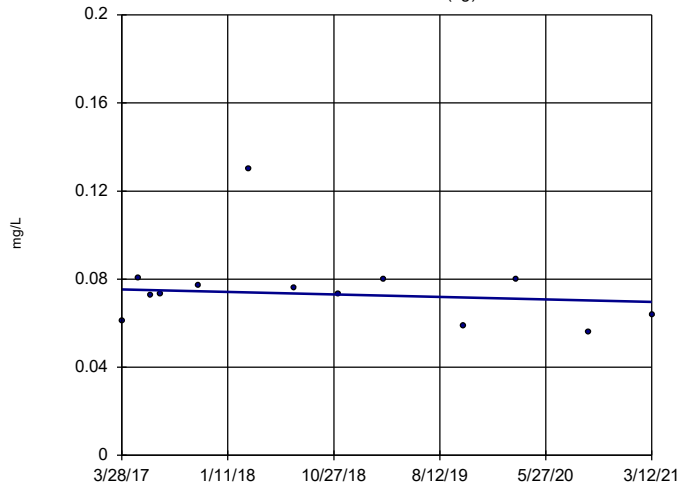
Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/21/2021, 10:07 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	DGWC-23	-1.263	-4	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-4	96.98	35	43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-42	-9.218	-11	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-48	-66.66	-68	-43	Yes	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-5	38.2	44	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	DGWC-9	9.585	15	43	No	13	0	n/a	n/a	0.01	NP

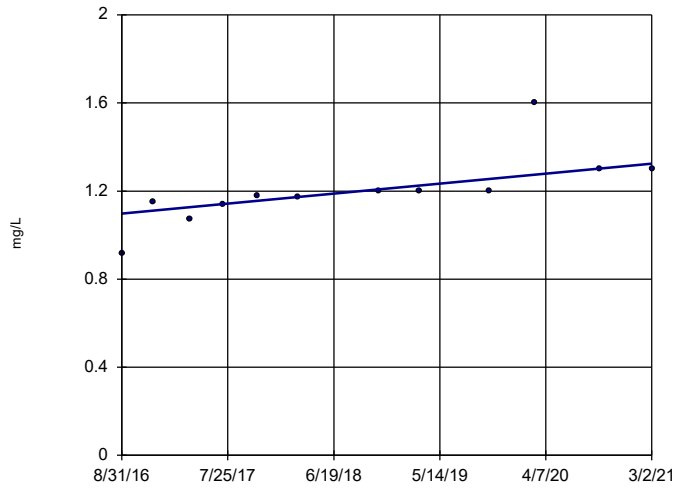
Sen's Slope Estimator

DGWA-53 (bg)



Sen's Slope Estimator

DGWC-11

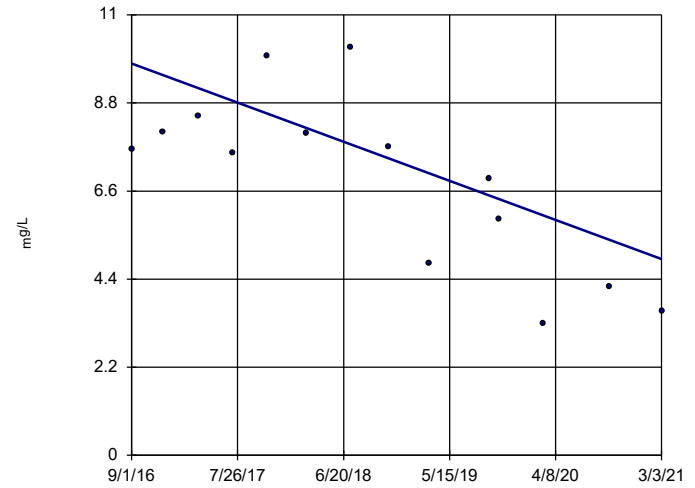


n = 12
 Slope = 0.05061
 units per year.
 Mann-Kendall
 statistic = 52
 critical = 38
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-12

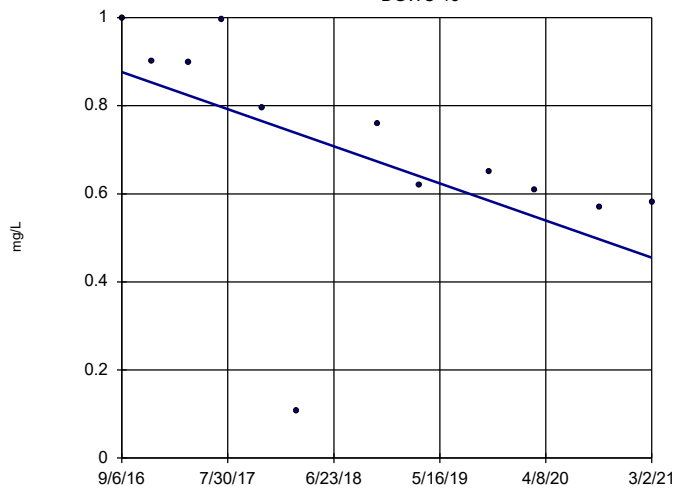


n = 14
 Slope = -1.084
 units per year.
 Mann-Kendall
 statistic = -49
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-13

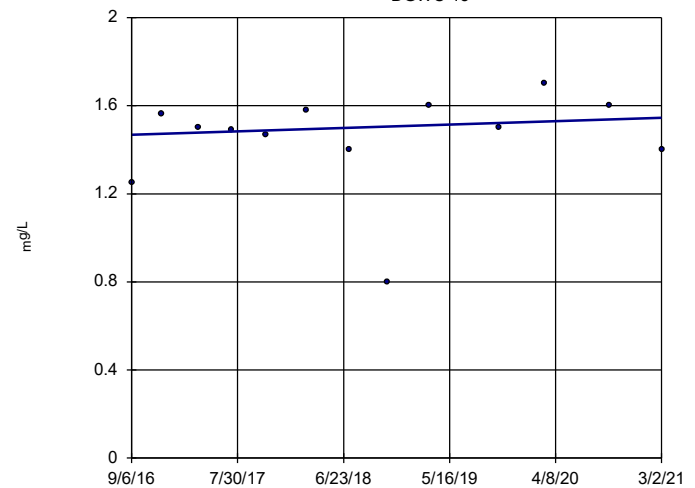


n = 12
 Slope = -0.09382
 units per year.
 Mann-Kendall
 statistic = -46
 critical = -38
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-15

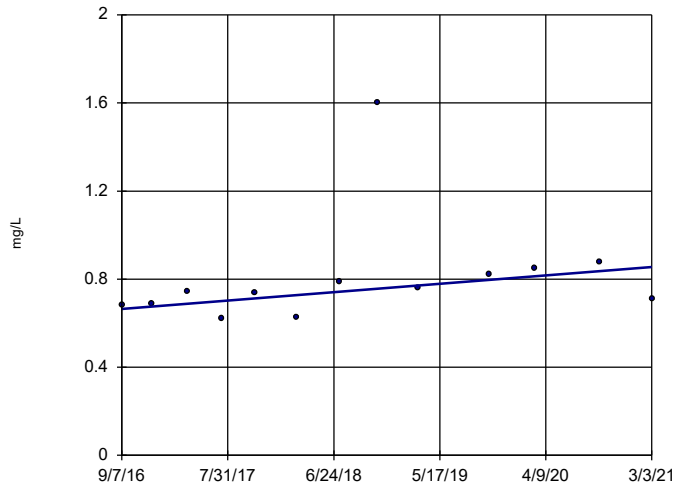


n = 13
 Slope = 0.01697
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-17

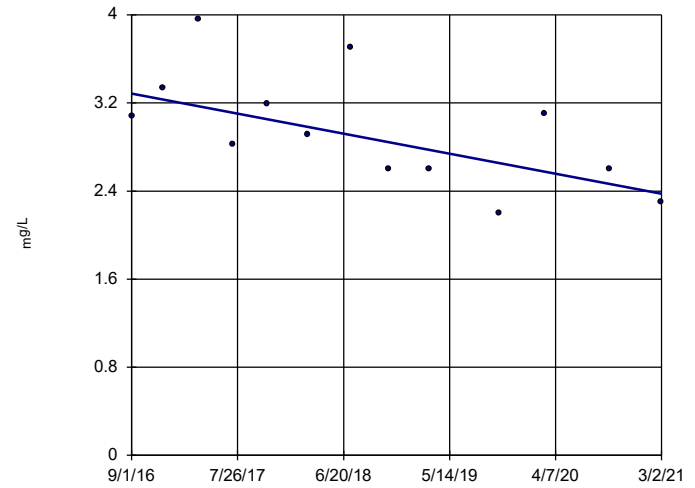


n = 13
 Slope = 0.04246
 units per year.
 Mann-Kendall
 statistic = 36
 critical = 43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-19

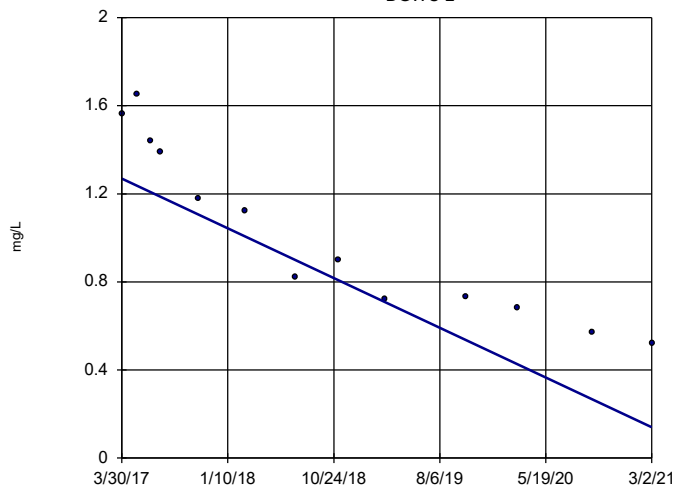


n = 13
 Slope = -0.2027
 units per year.
 Mann-Kendall
 statistic = -37
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-2

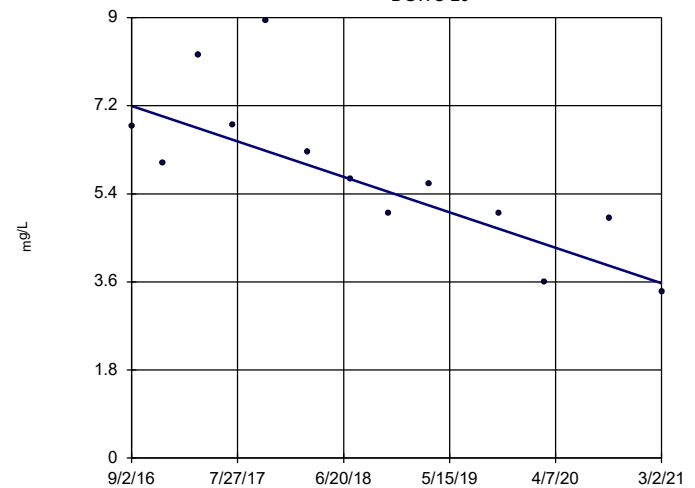


n = 13
 Slope = -0.2874
 units per year.
 Mann-Kendall
 statistic = -72
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-20

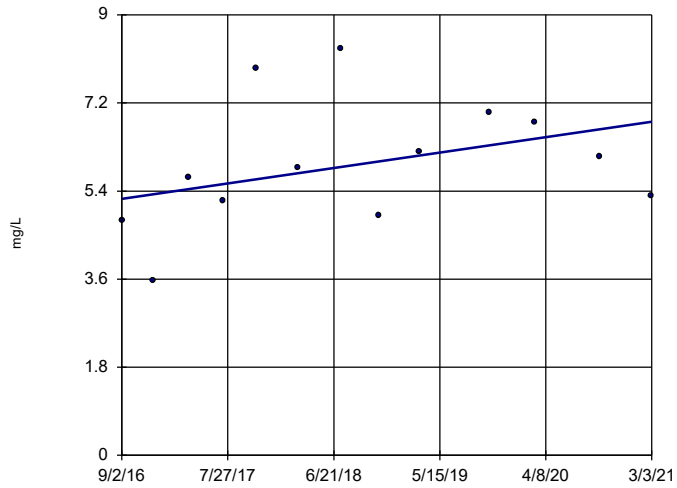


n = 13
 Slope = -0.8052
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-21

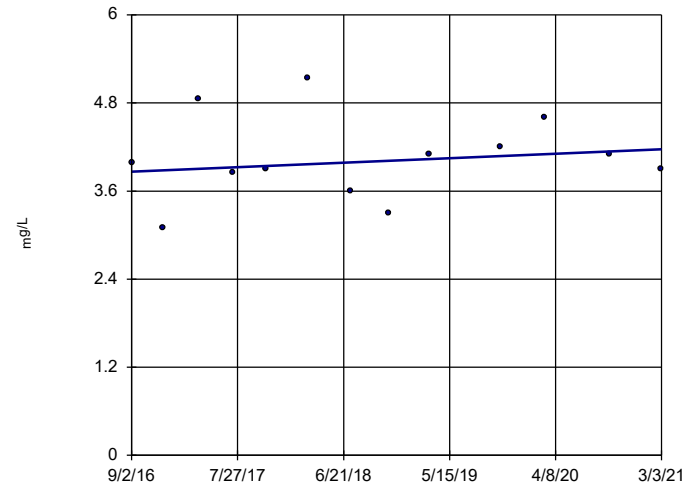


n = 13
 Slope = 0.35 units per year.
 Mann-Kendall statistic = 22
 critical = 43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-22

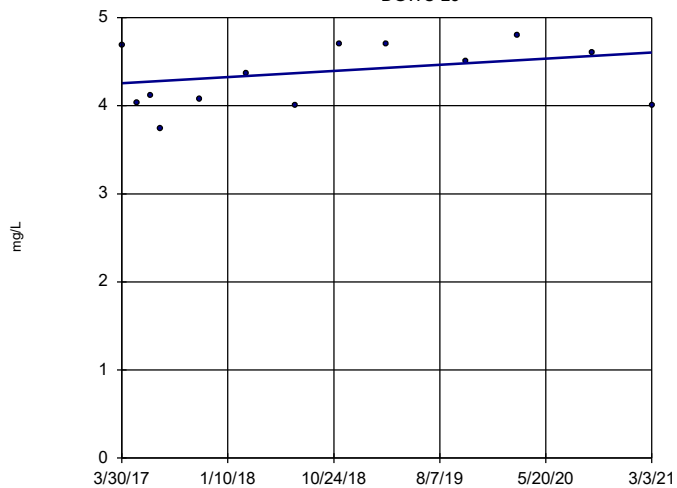


n = 13
 Slope = 0.06786 units per year.
 Mann-Kendall statistic = 10
 critical = 43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-23

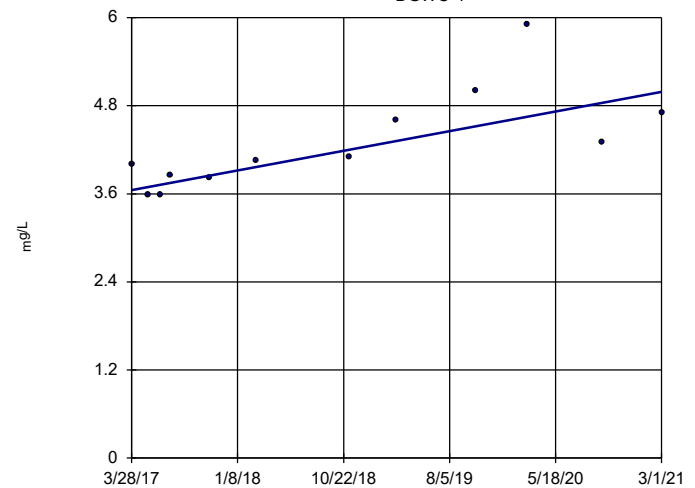


n = 13
 Slope = 0.08846 units per year.
 Mann-Kendall statistic = 16
 critical = 43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-4

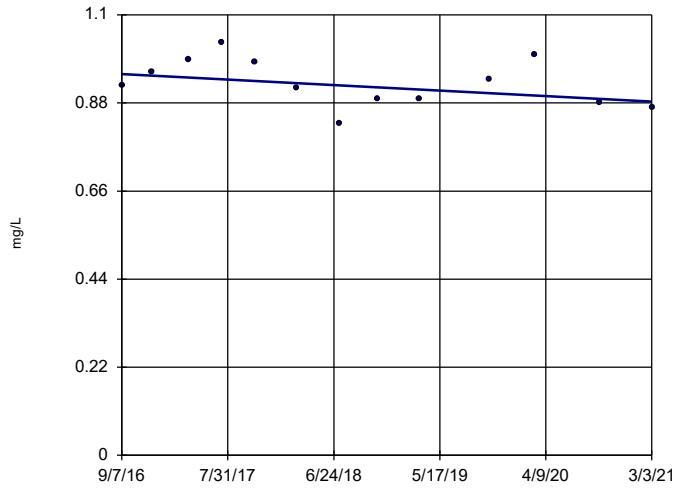


n = 12
 Slope = 0.3407 units per year.
 Mann-Kendall statistic = 45
 critical = 38
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-42

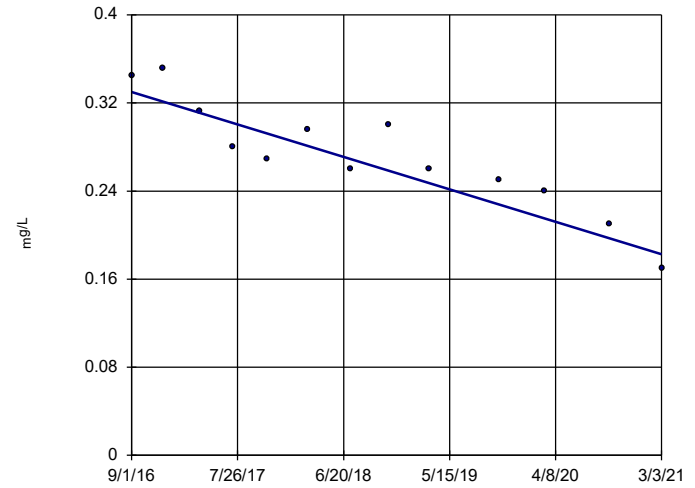


n = 13
 Slope = -0.01525
 units per year.
 Mann-Kendall
 statistic = -25
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-47

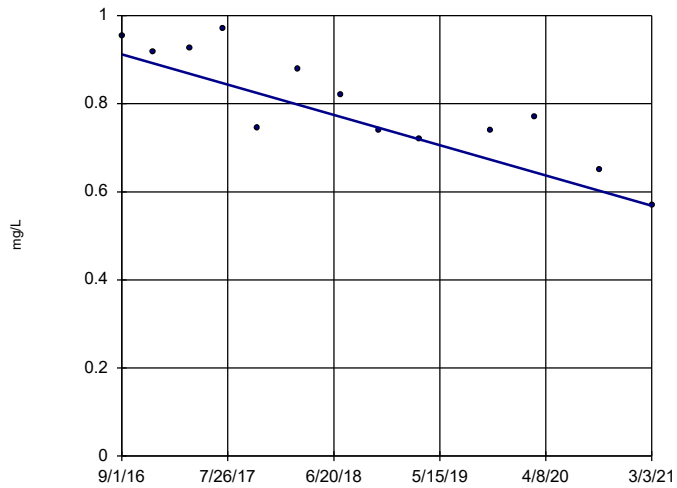


n = 13
 Slope = -0.0327
 units per year.
 Mann-Kendall
 statistic = -63
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48

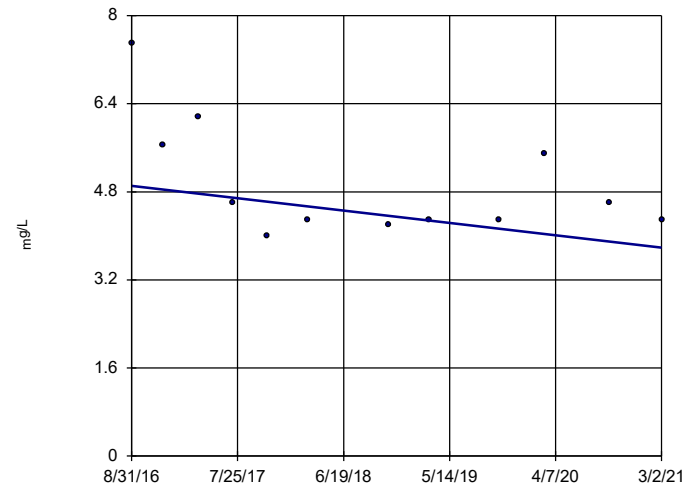


n = 13
 Slope = -0.07622
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

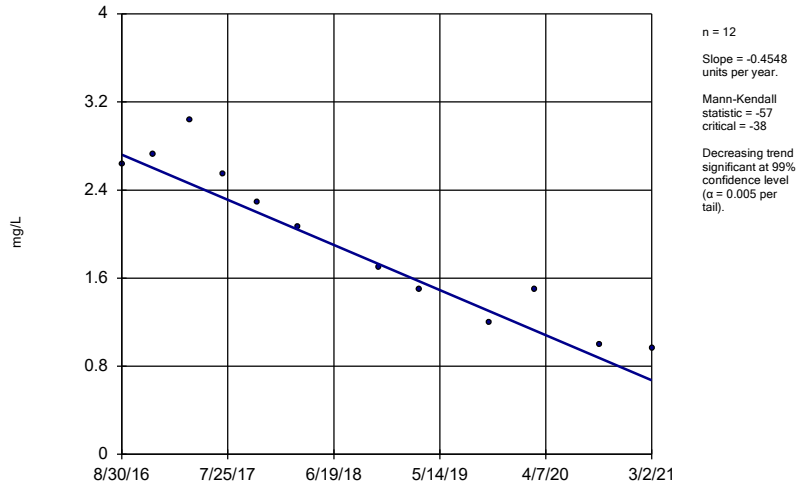
DGWC-5



n = 12
 Slope = -0.2495
 units per year.
 Mann-Kendall
 statistic = -17
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

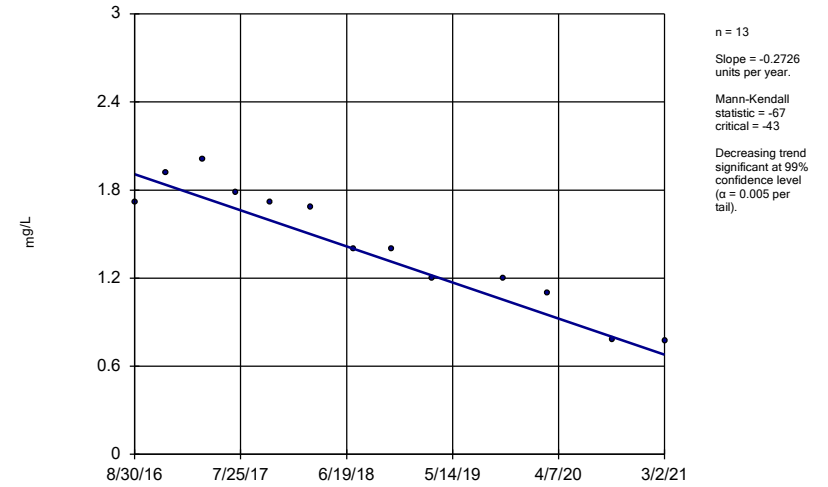
Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-8



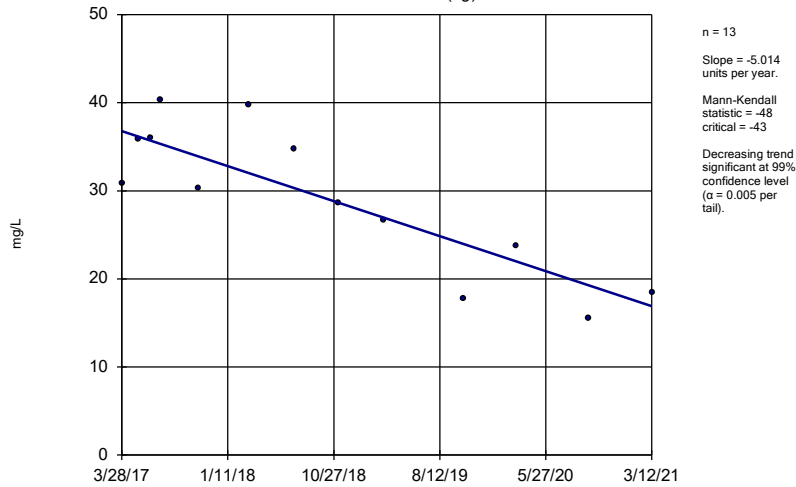
Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWC-9



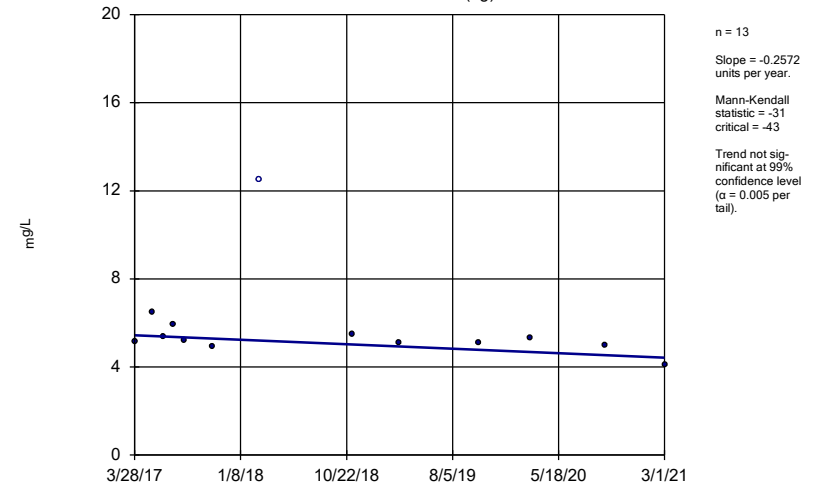
Constituent: Boron Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)



Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

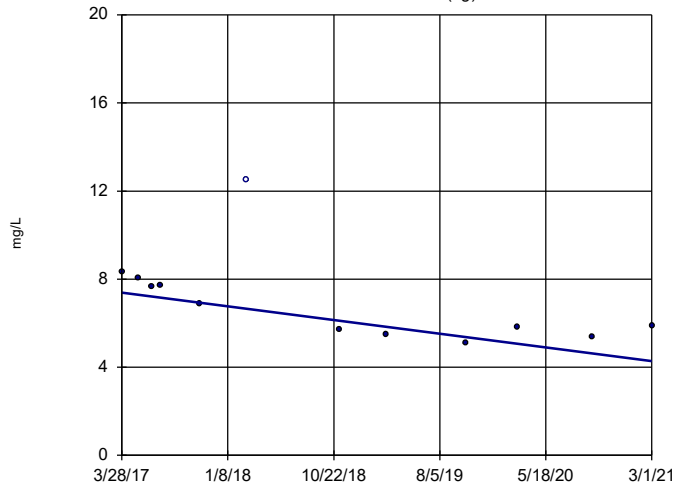
Sen's Slope Estimator
DGWA-70A (bg)



Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-71 (bg)

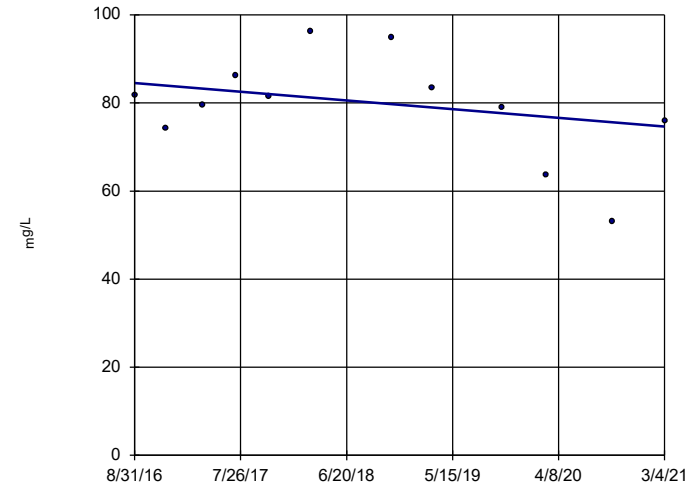


n = 12
 Slope = -0.7909
 units per year.
 Mann-Kendall
 statistic = -36
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-10

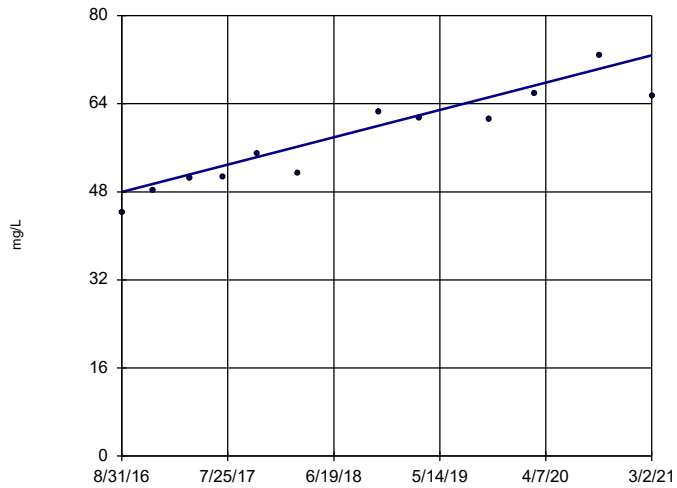


n = 12
 Slope = -2.204
 units per year.
 Mann-Kendall
 statistic = -18
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-11

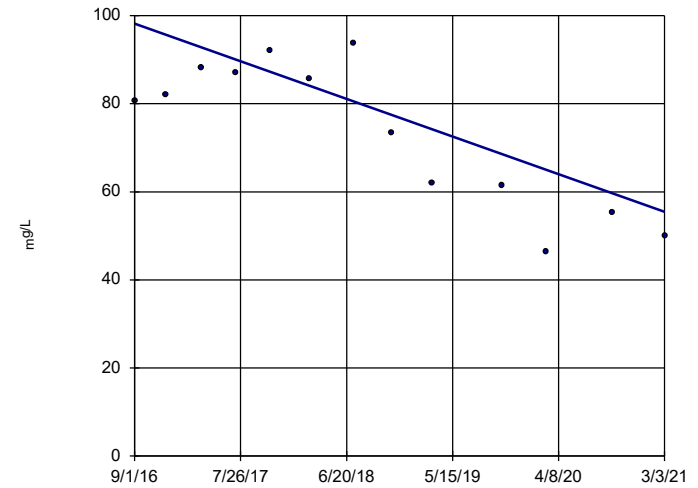


n = 12
 Slope = 5.511
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 38
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-12

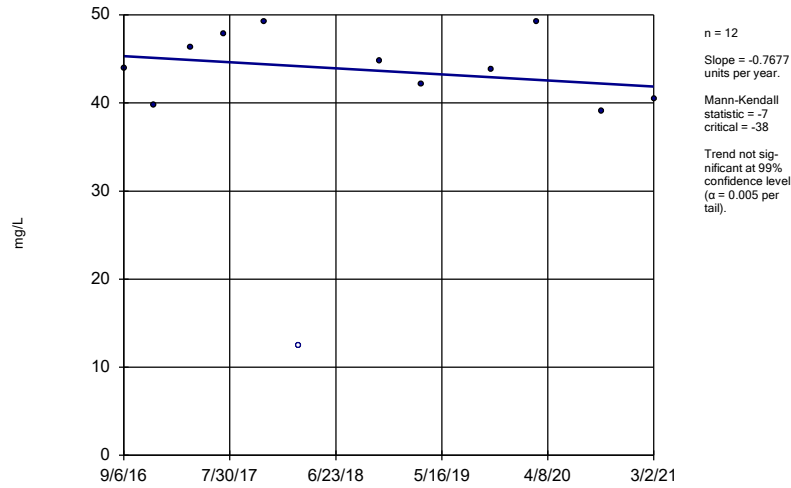


n = 13
 Slope = -9.486
 units per year.
 Mann-Kendall
 statistic = -40
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

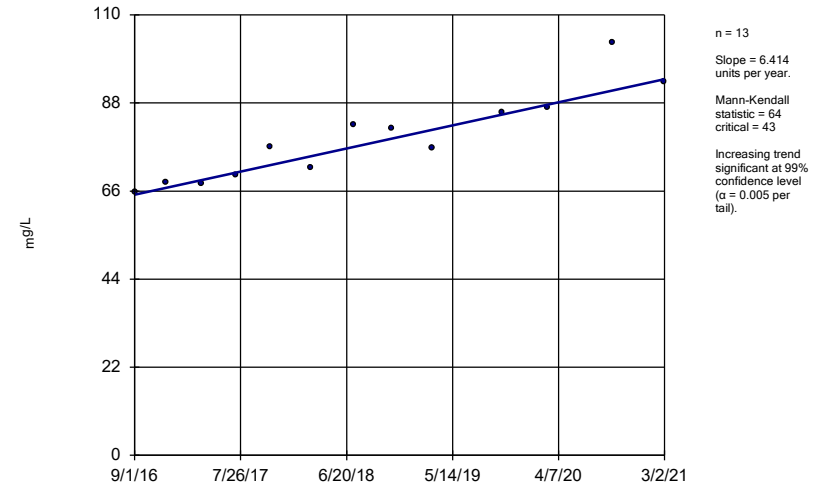
DGWC-13



Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

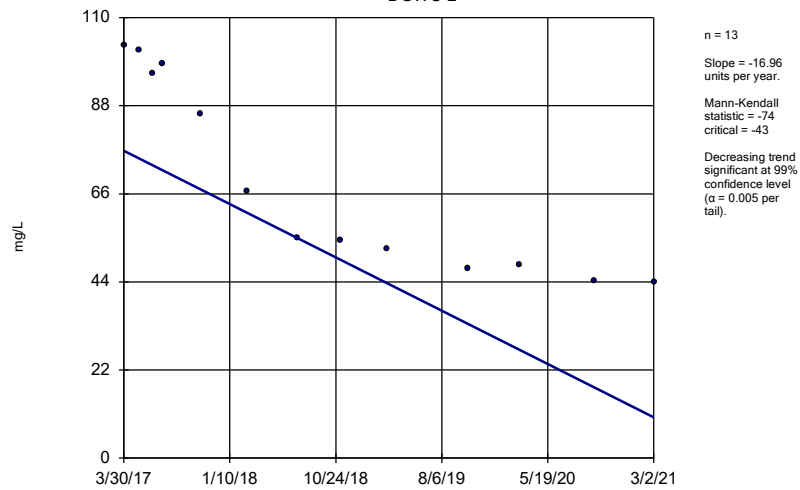
DGWC-19



Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

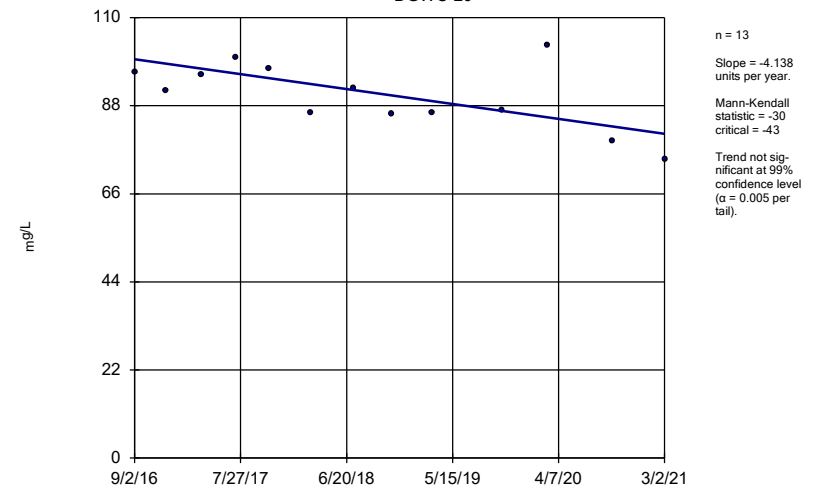
DGWC-2



Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

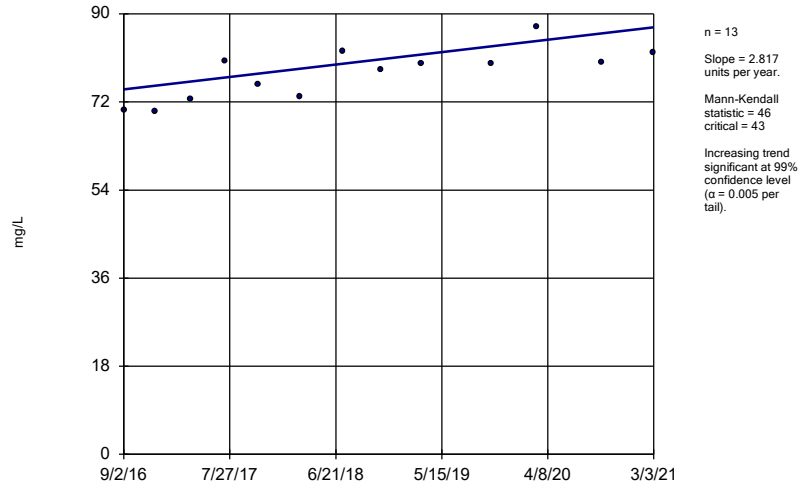
DGWC-20



Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

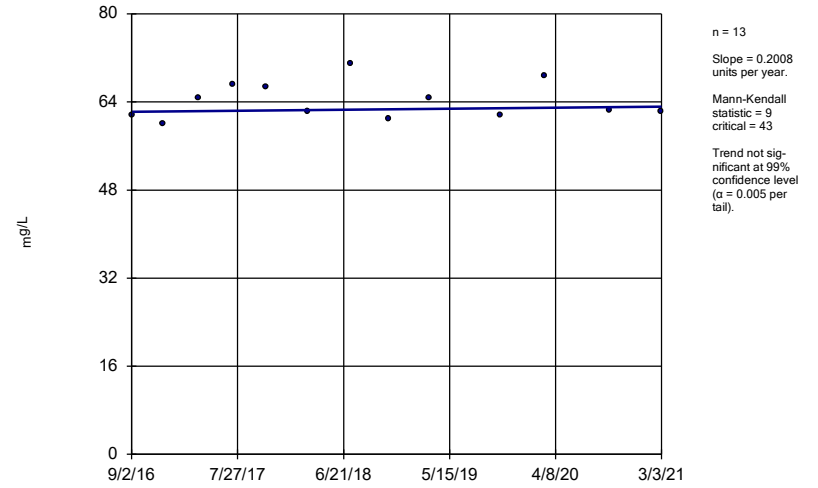
DGWC-21



Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

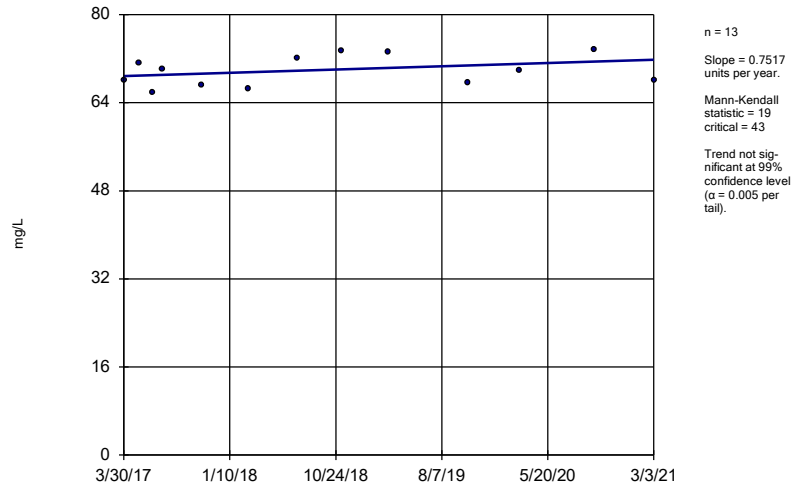
DGWC-22



Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

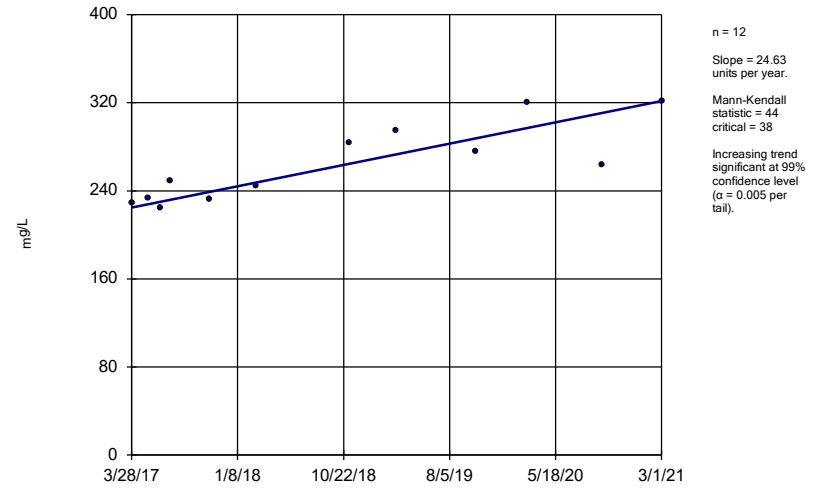
DGWC-23



Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

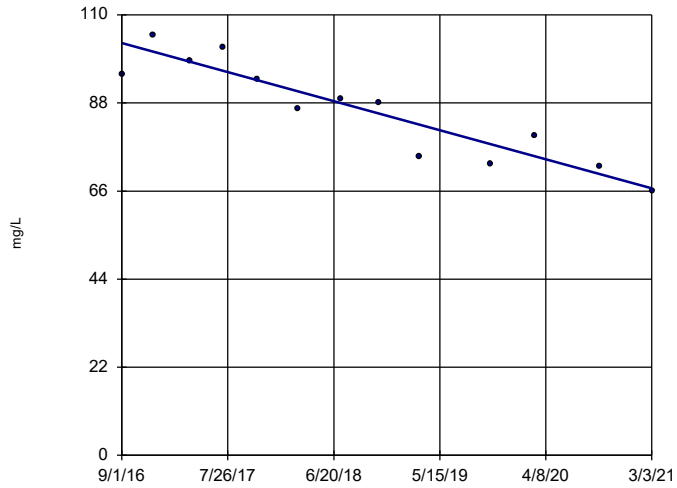
DGWC-4



Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48

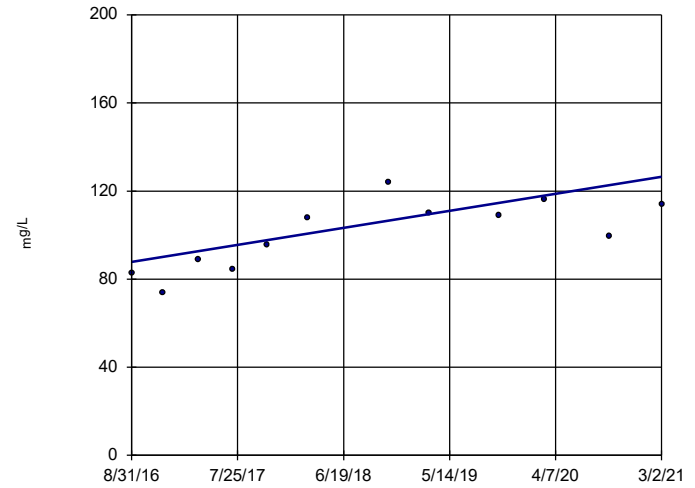


n = 13
 Slope = -8.047 units per year.
 Mann-Kendall statistic = -62
 critical = -43
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-5

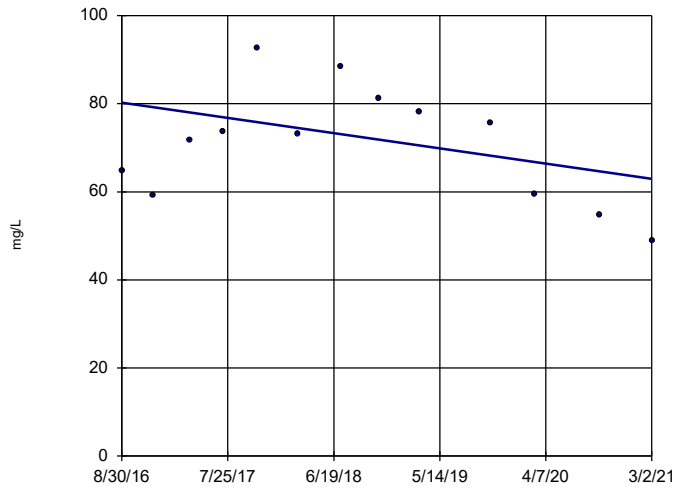


n = 12
 Slope = 8.557 units per year.
 Mann-Kendall statistic = 40
 critical = 38
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-9

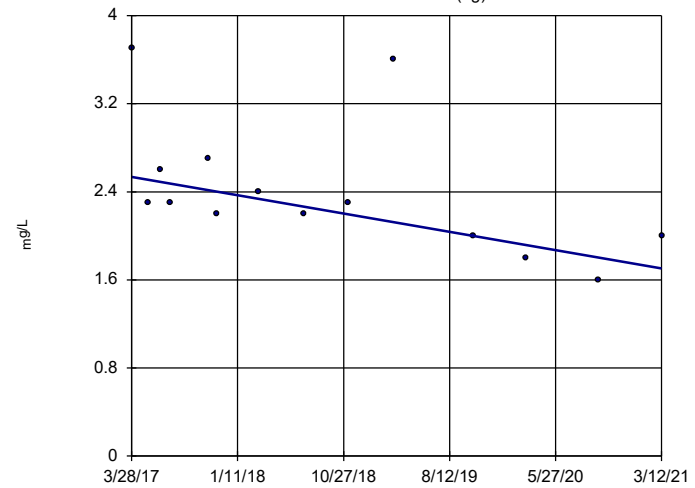


n = 13
 Slope = -3.848 units per year.
 Mann-Kendall statistic = -12
 critical = -43
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-53 (bg)

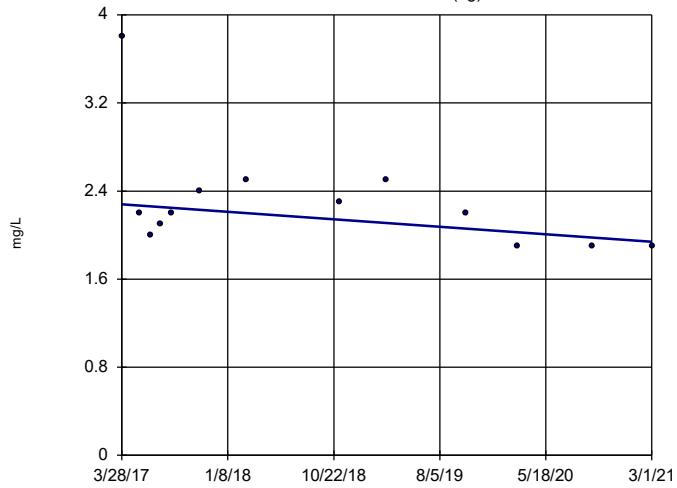


n = 14
 Slope = -0.2102 units per year.
 Mann-Kendall statistic = -48
 critical = -48
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-70A (bg)

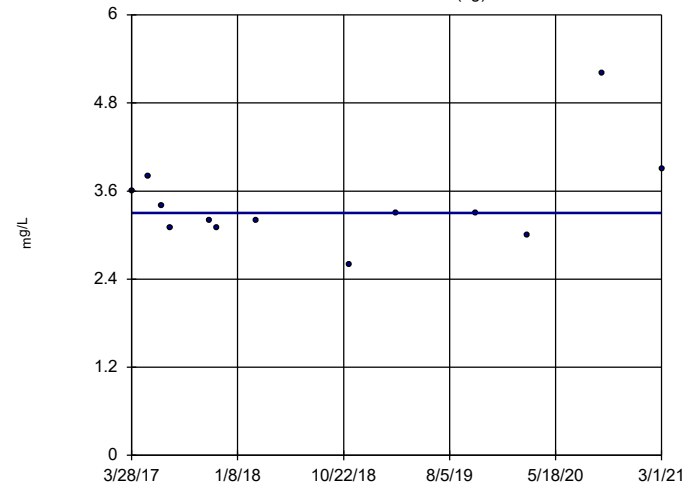


n = 13
 Slope = -0.08674
 units per year.
 Mann-Kendall
 statistic = -23
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-71 (bg)

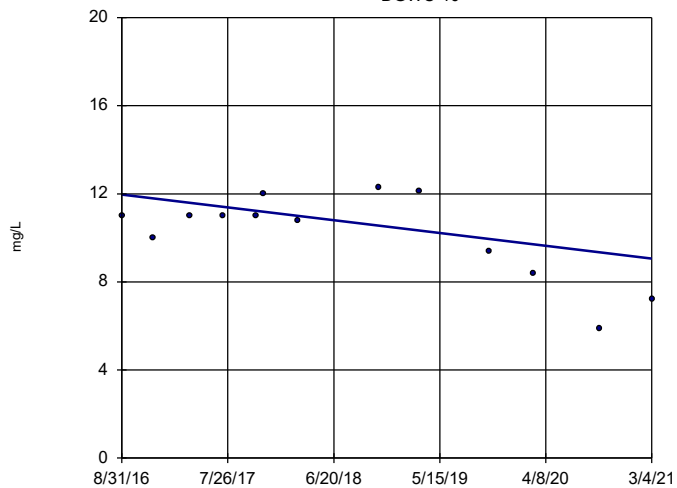


n = 13
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-10

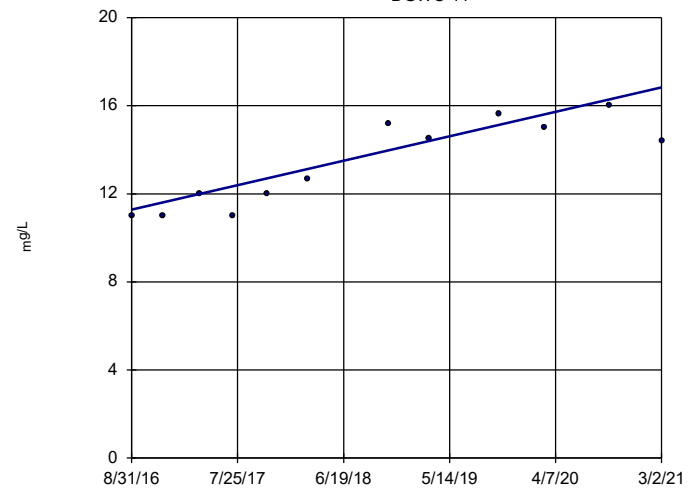


n = 13
 Slope = -0.6439
 units per year.
 Mann-Kendall
 statistic = -24
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-11

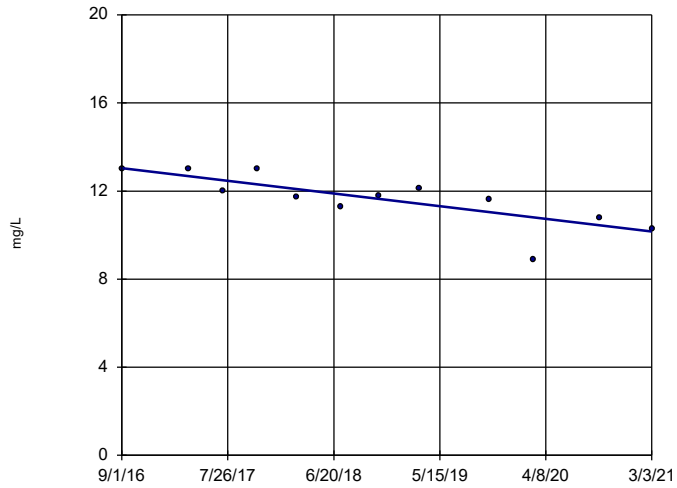


n = 12
 Slope = 1.233
 units per year.
 Mann-Kendall
 statistic = 44
 critical = 38
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

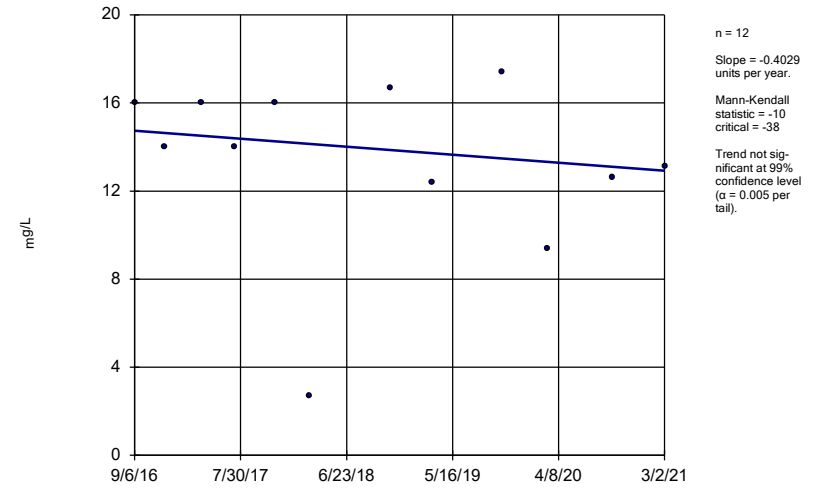
DGWC-12



Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

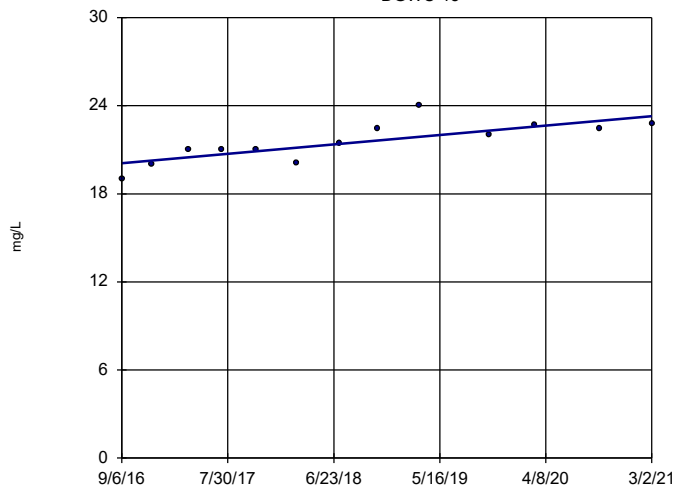
DGWC-13



Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

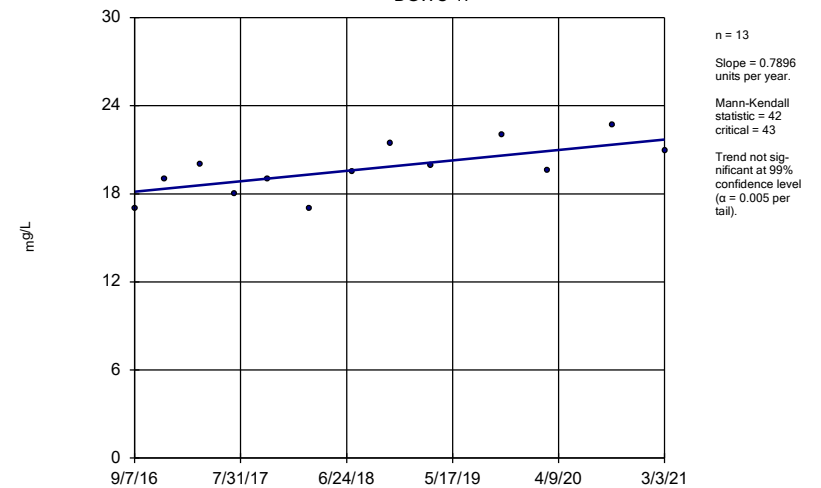
DGWC-15



Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

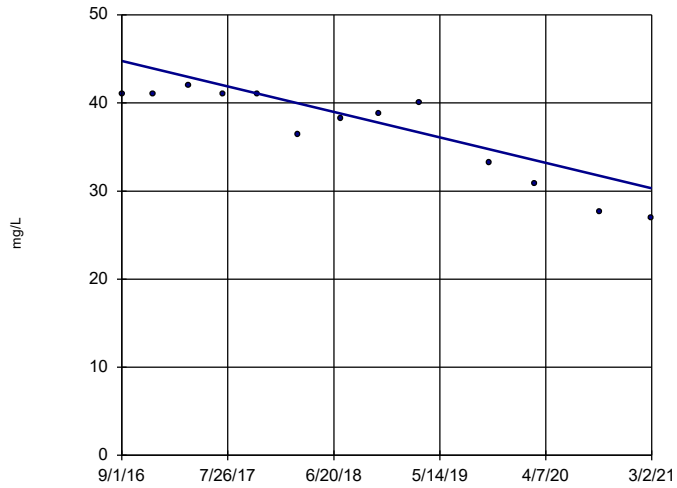
DGWC-17



Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-19

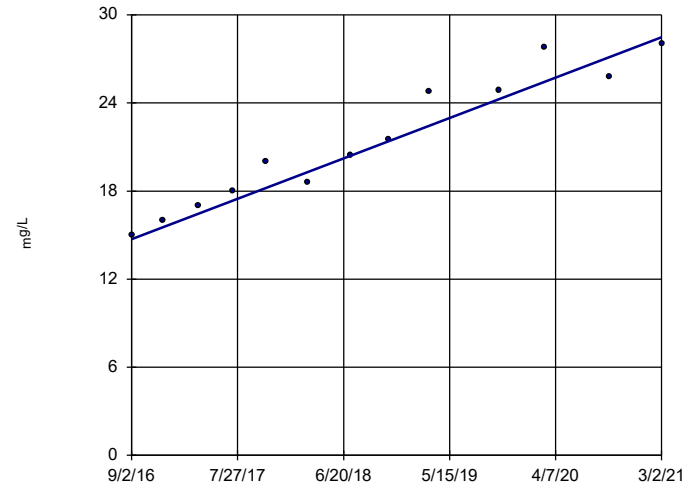


n = 13
 Slope = -3.213
 units per year.
 Mann-Kendall
 statistic = -56
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-20

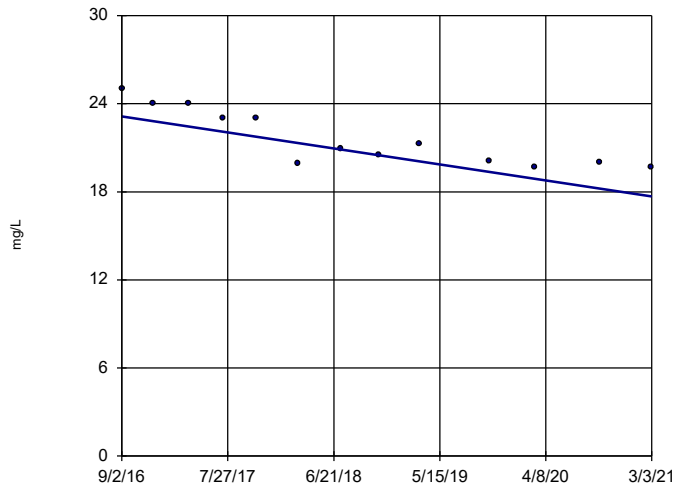


n = 13
 Slope = 3.056
 units per year.
 Mann-Kendall
 statistic = 74
 critical = 43
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-21

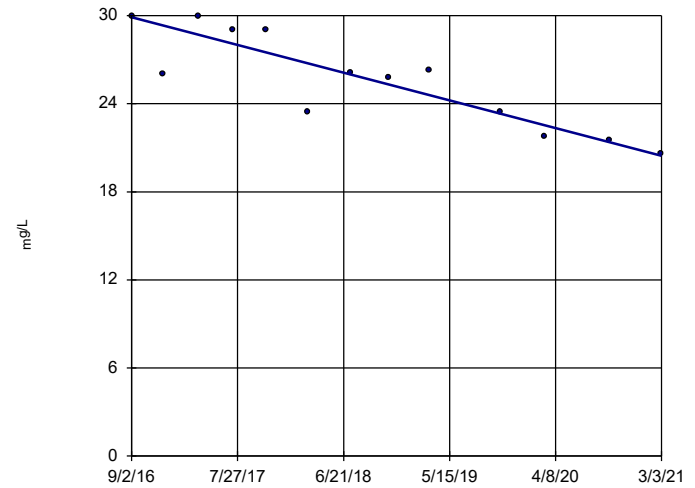


n = 13
 Slope = -1.211
 units per year.
 Mann-Kendall
 statistic = -59
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-22

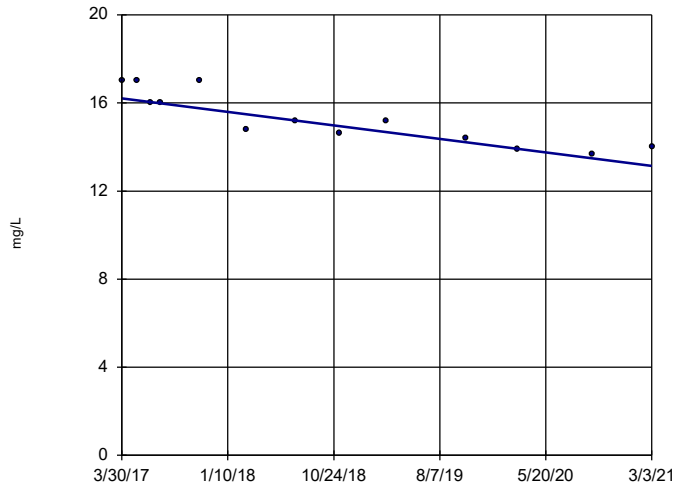


n = 13
 Slope = -2.096
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

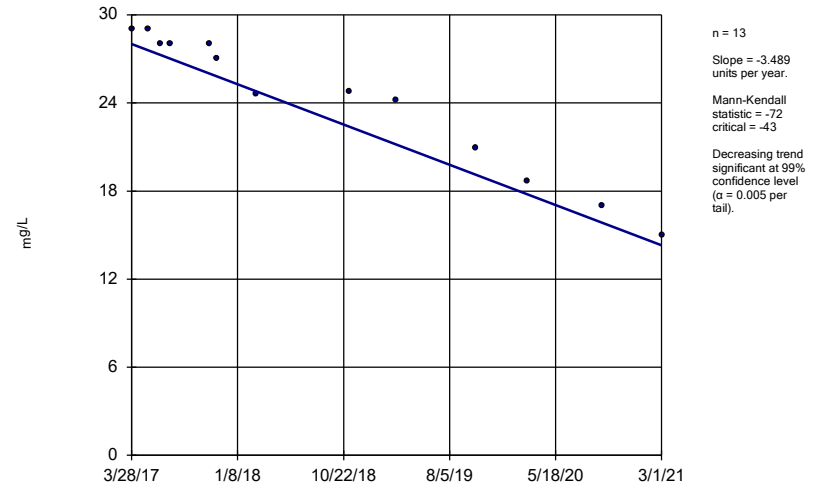
DGWC-23



Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

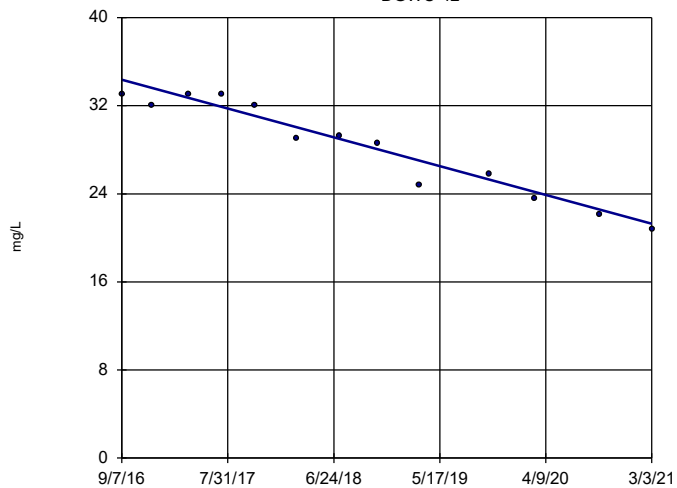
DGWC-4



Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

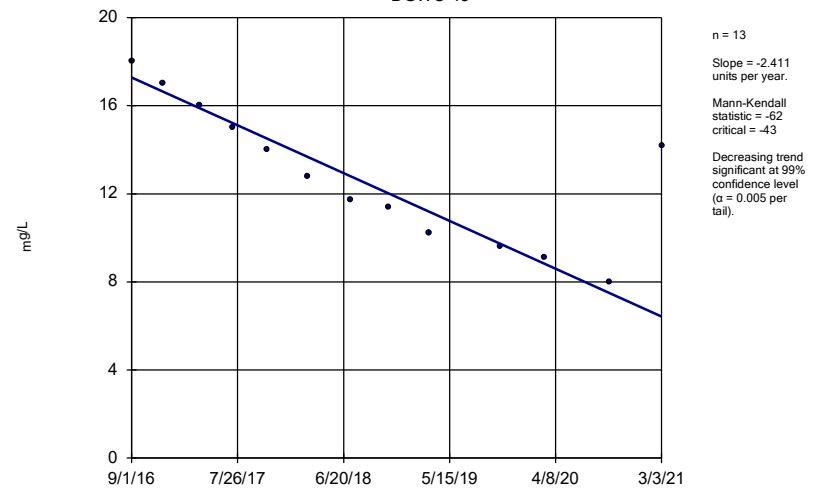
DGWC-42



Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

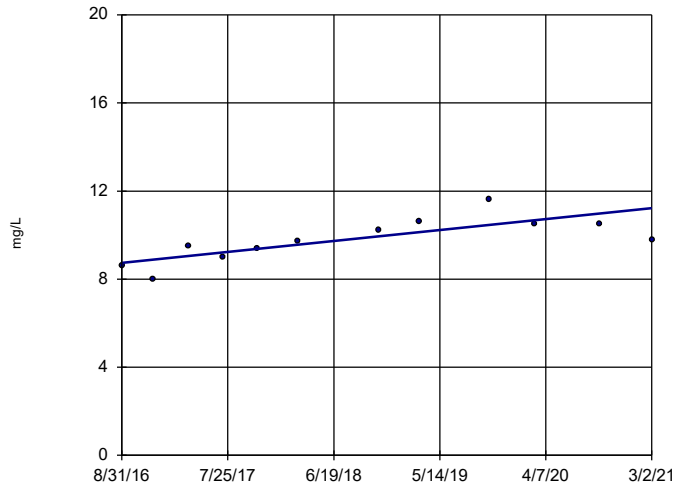
Sen's Slope Estimator

DGWC-48



Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

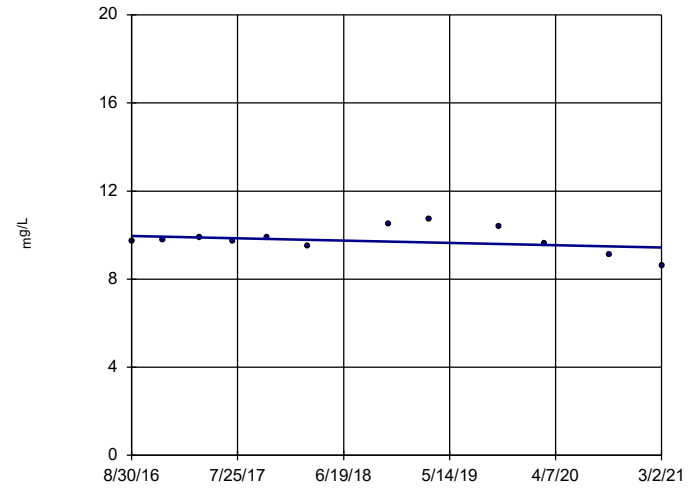
Sen's Slope Estimator
DGWC-5



n = 12
Slope = 0.5523
units per year.
Mann-Kendall
statistic = 41
critical = 38
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

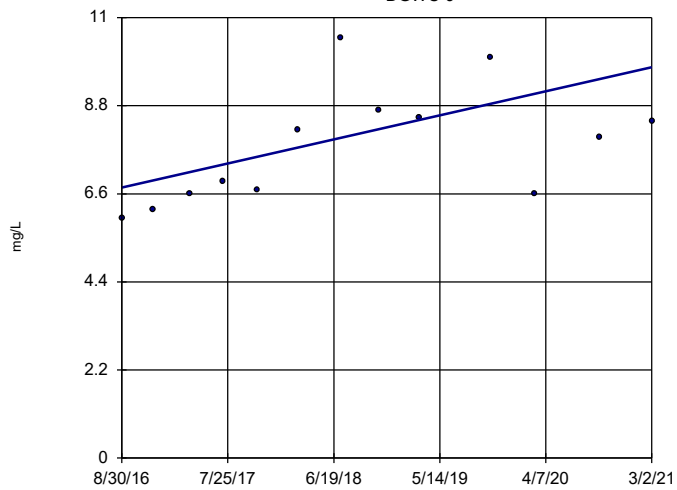
Sen's Slope Estimator
DGWC-8



n = 12
Slope = -0.1166
units per year.
Mann-Kendall
statistic = -12
critical = -38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

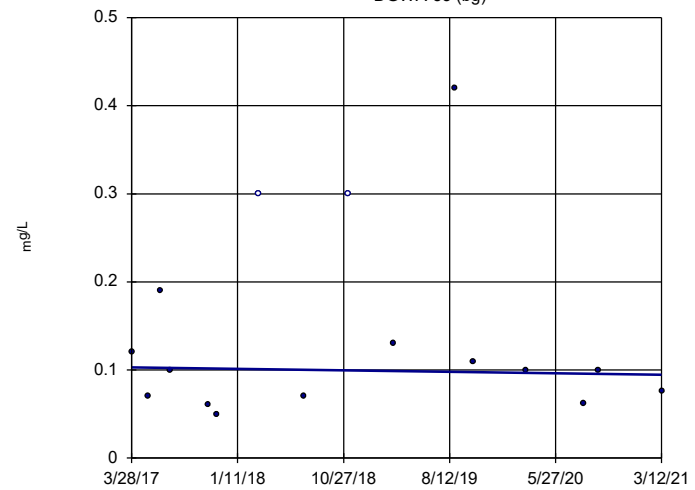
Sen's Slope Estimator
DGWC-9



n = 13
Slope = 0.6663
units per year.
Mann-Kendall
statistic = 35
critical = 43
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator
DGWA-53 (bg)

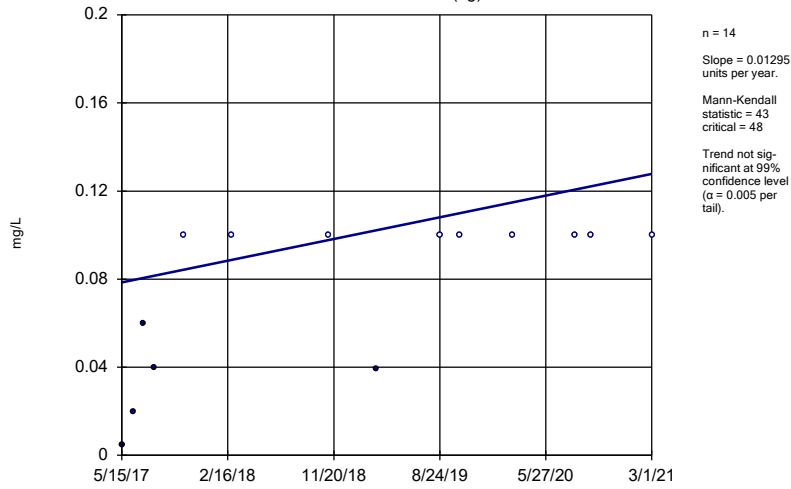


n = 16
Slope = -0.002153
units per year.
Mann-Kendall
statistic = -6
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

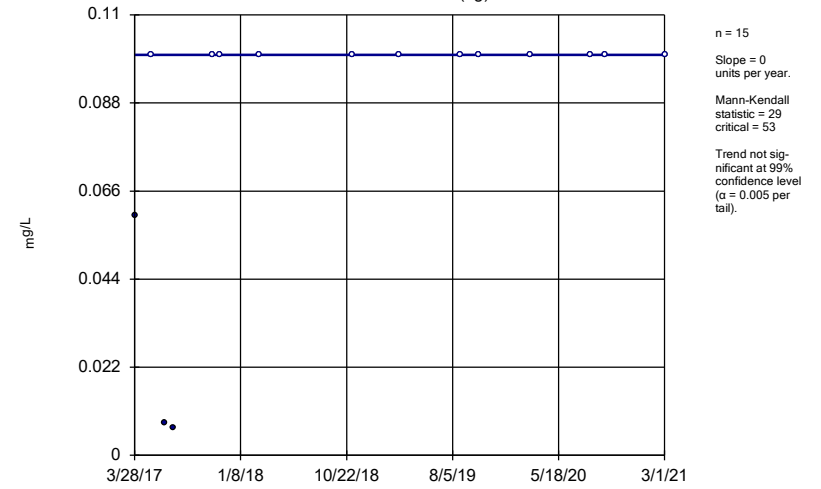
DGWA-70A (bg)



Constituent: Fluoride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

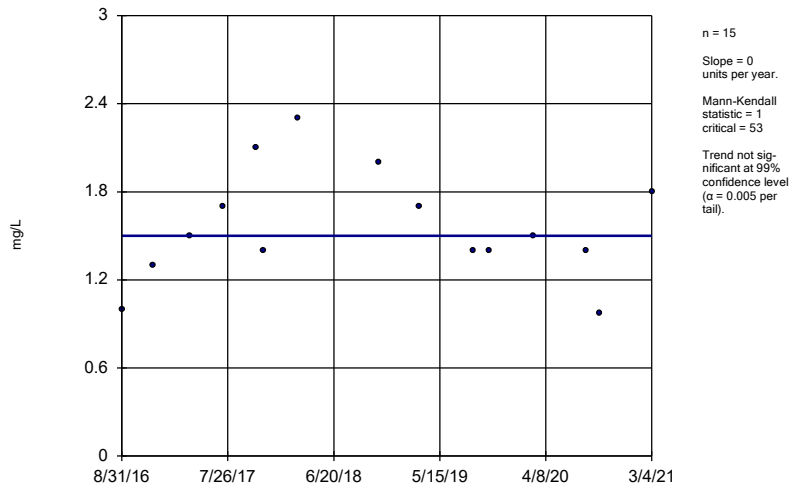
DGWA-71 (bg)



Constituent: Fluoride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

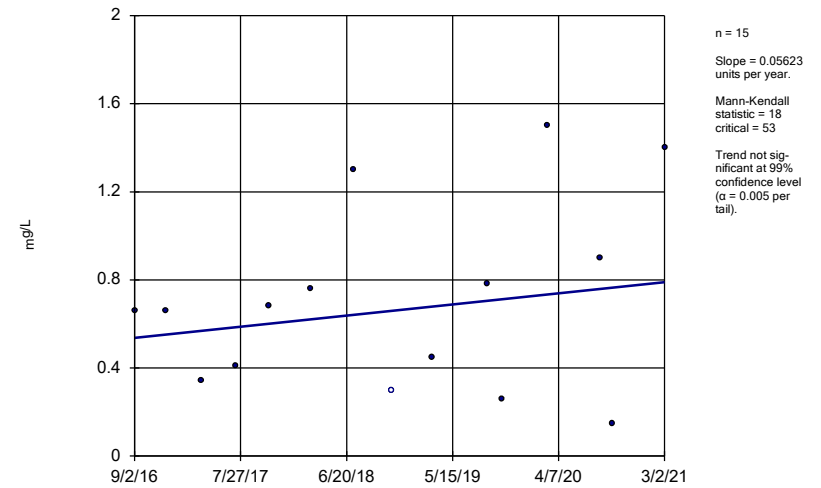
DGWC-10



Constituent: Fluoride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

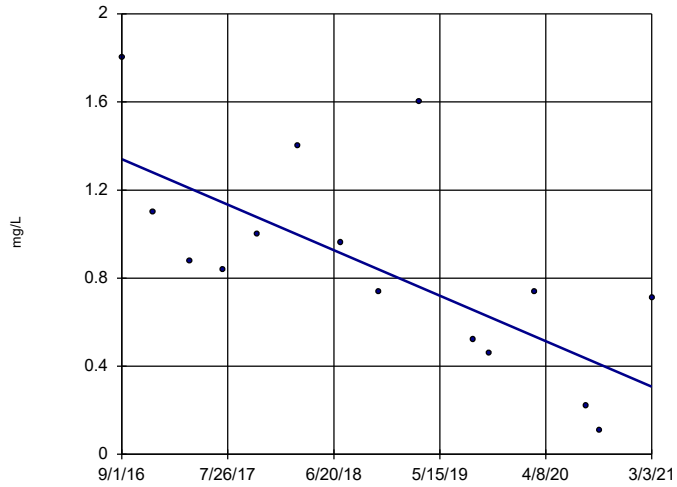
DGWC-20



Constituent: Fluoride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-47

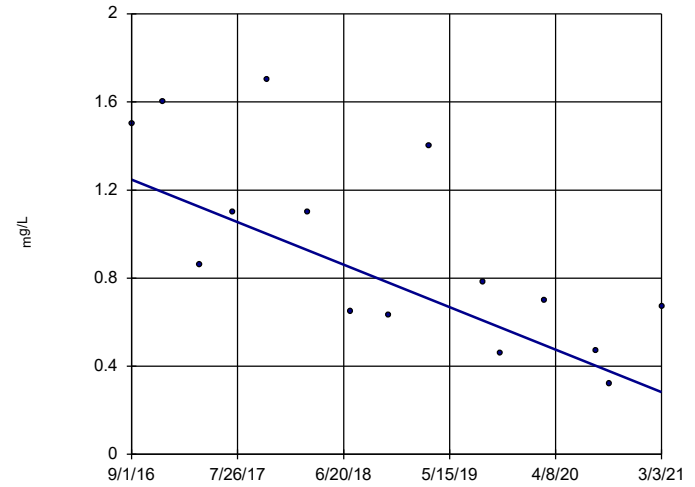


n = 15
 Slope = -0.2294
 units per year.
 Mann-Kendall
 statistic = -62
 critical = -53
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48

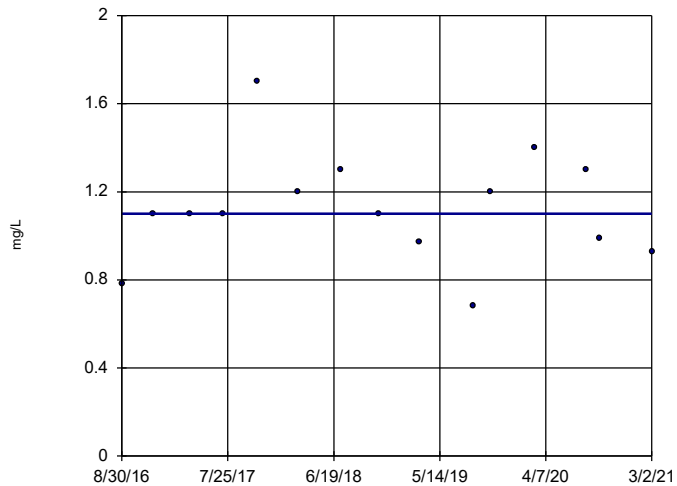


n = 15
 Slope = -0.2143
 units per year.
 Mann-Kendall
 statistic = -58
 critical = -53
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-9

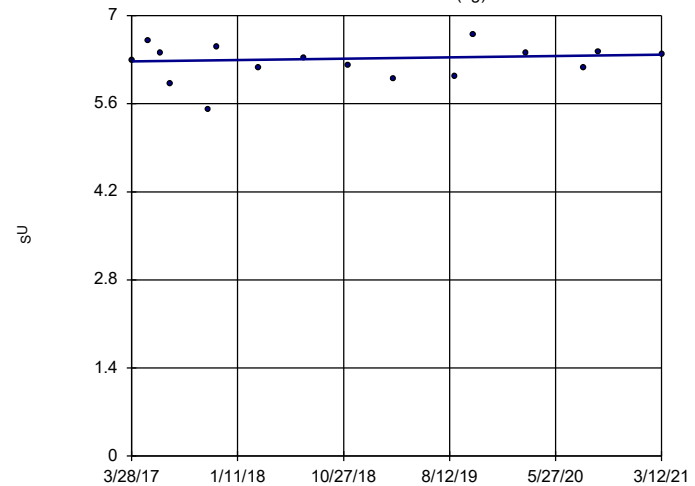


n = 15
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 1
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-53 (bg)

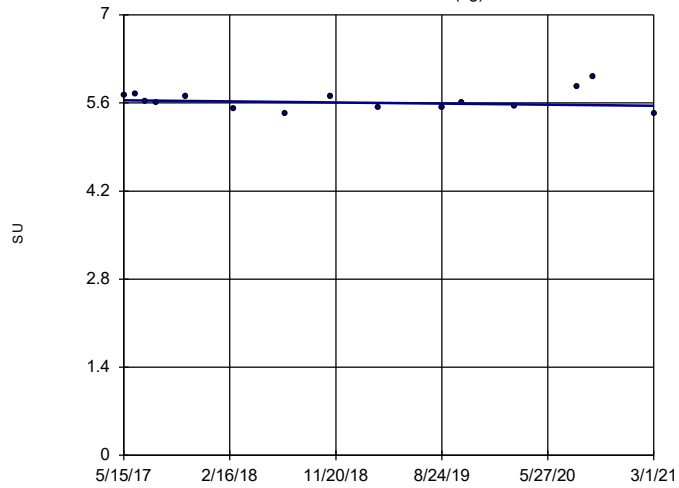


n = 16
 Slope = 0.02687
 units per year.
 Mann-Kendall
 statistic = 7
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 4/21/2021 10:05 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

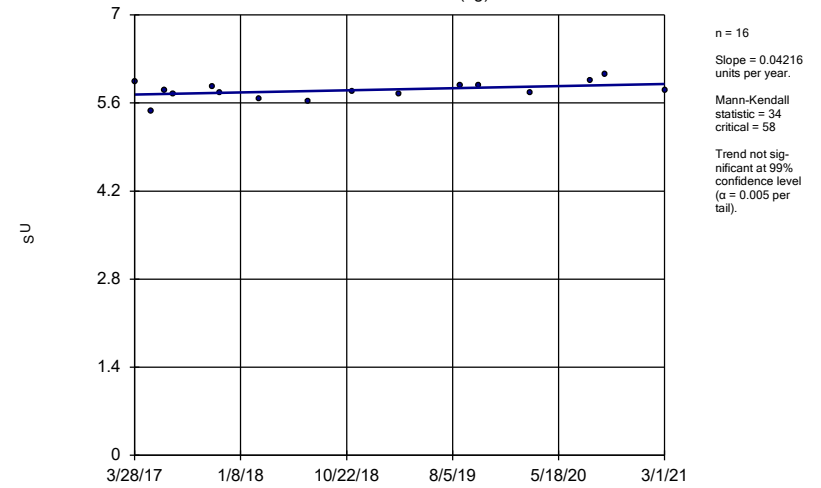
DGWA-70A (bg)



Constituent: pH Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

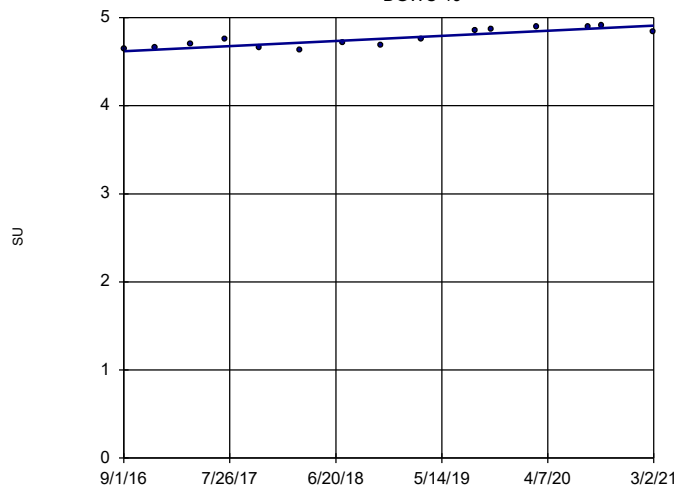
DGWA-71 (bg)



Constituent: pH Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

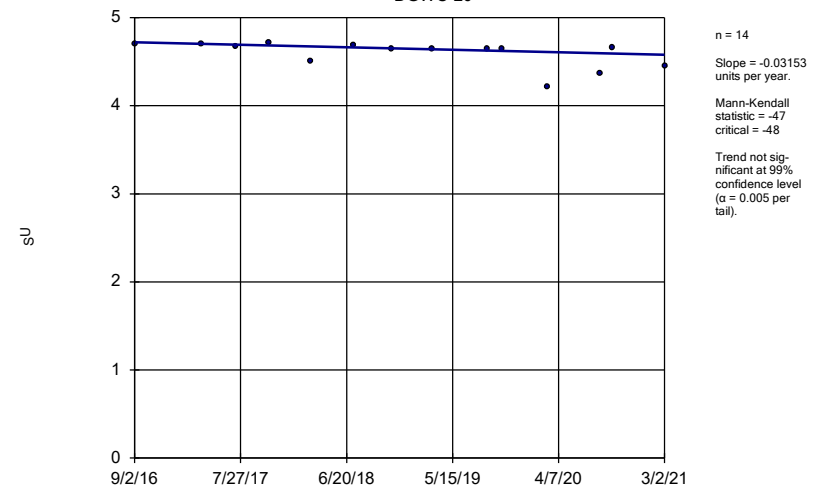
DGWC-19



Constituent: pH Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

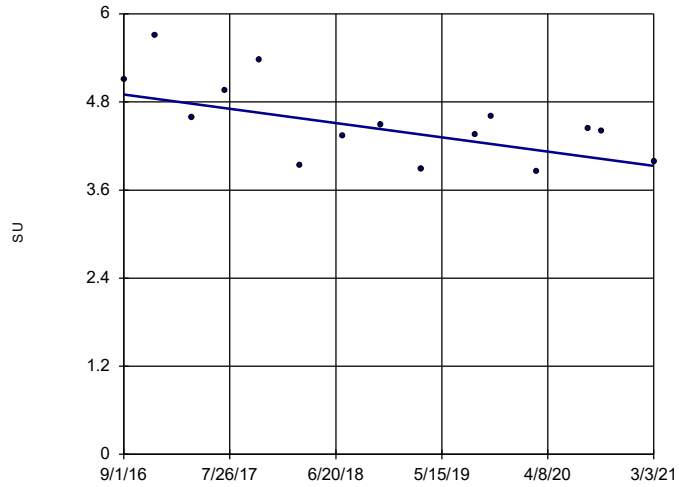
DGWC-20



Constituent: pH Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-47

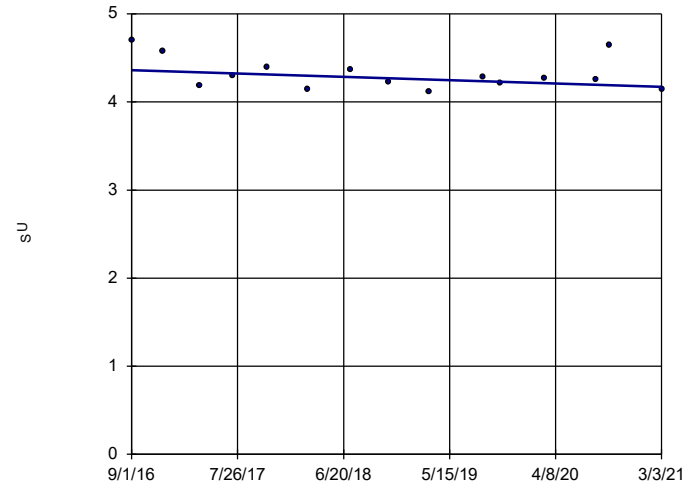


n = 15
 Slope = -0.2155 units per year.
 Mann-Kendall statistic = -45
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48

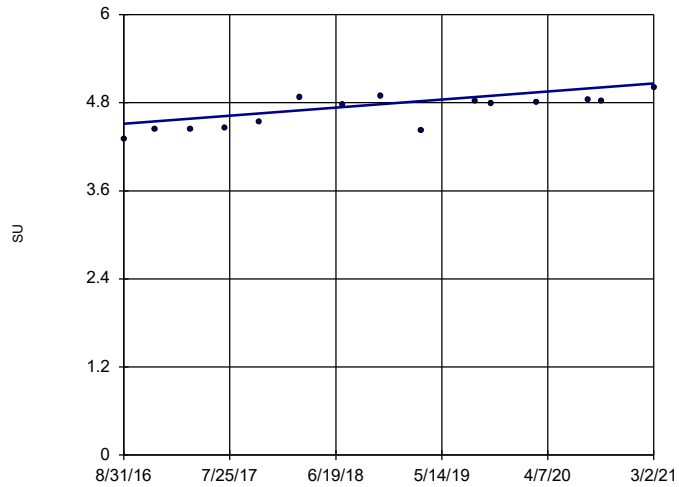


n = 15
 Slope = -0.04228 units per year.
 Mann-Kendall statistic = -28
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-5

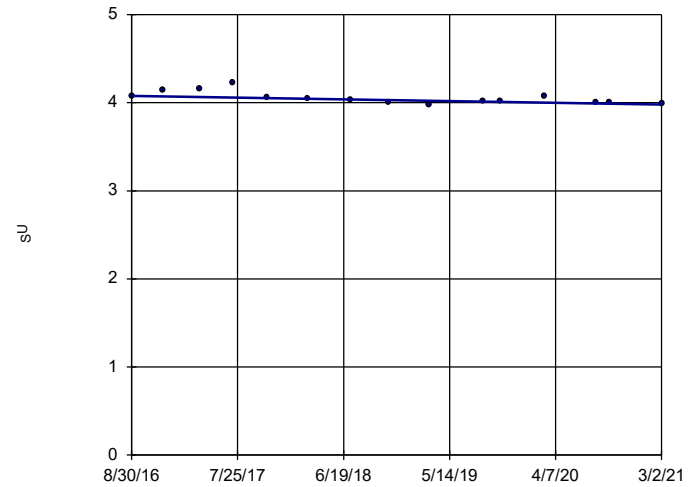


n = 15
 Slope = 0.1224 units per year.
 Mann-Kendall statistic = 62
 critical = 53
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-9

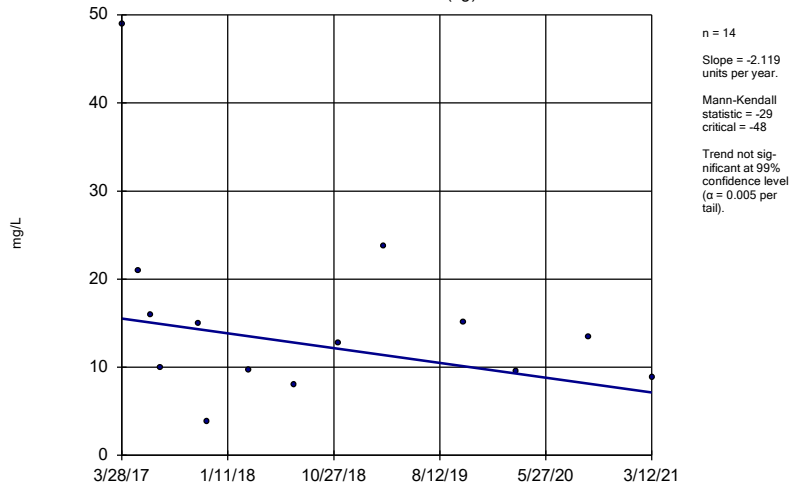


n = 15
 Slope = -0.02181 units per year.
 Mann-Kendall statistic = -61
 critical = -53
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-53 (bg)

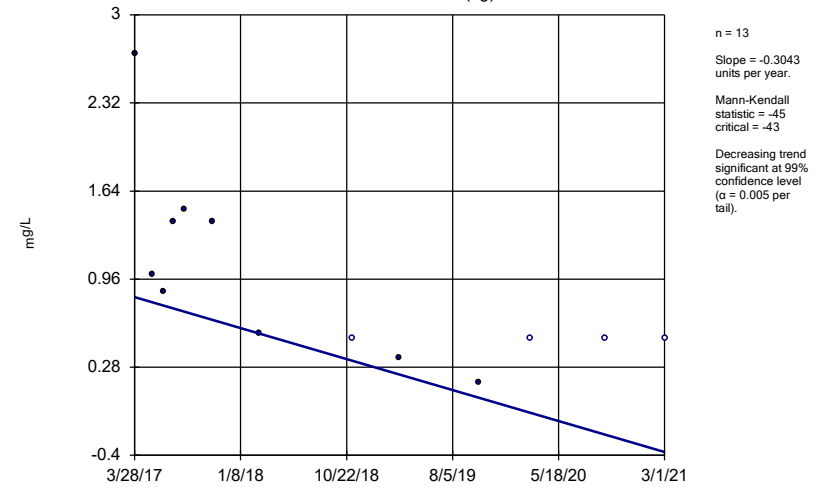


Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

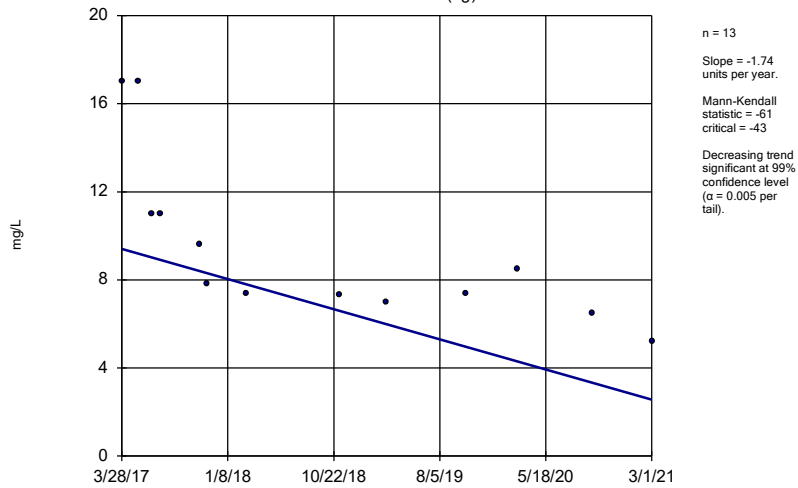
DGWA-70A (bg)



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

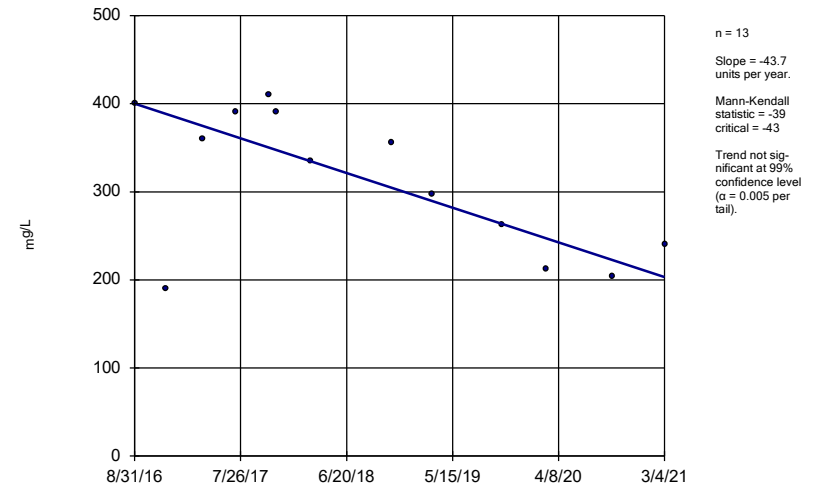
DGWA-71 (bg)



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

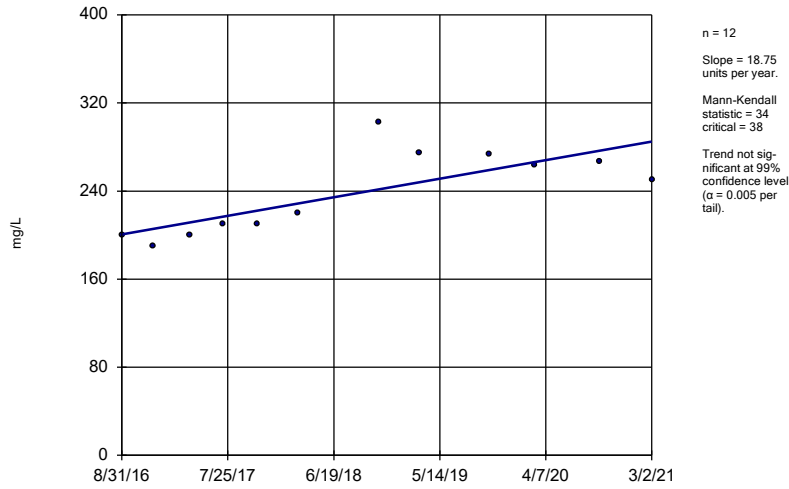
DGWC-10



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

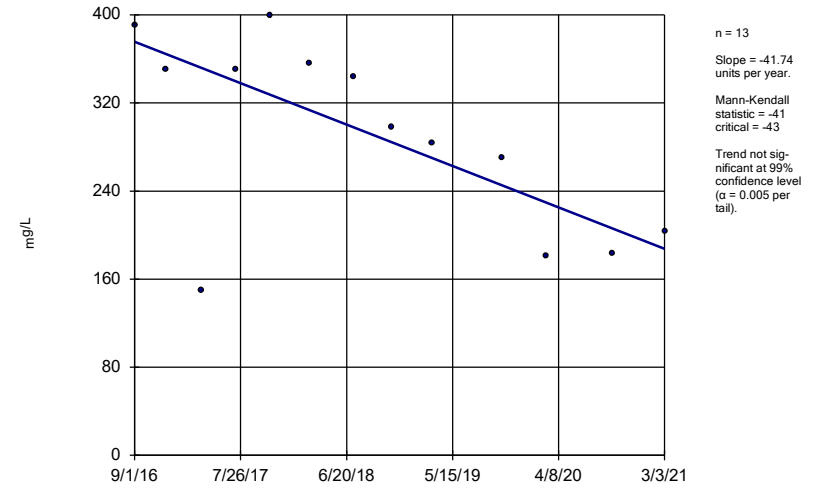
DGWC-11



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

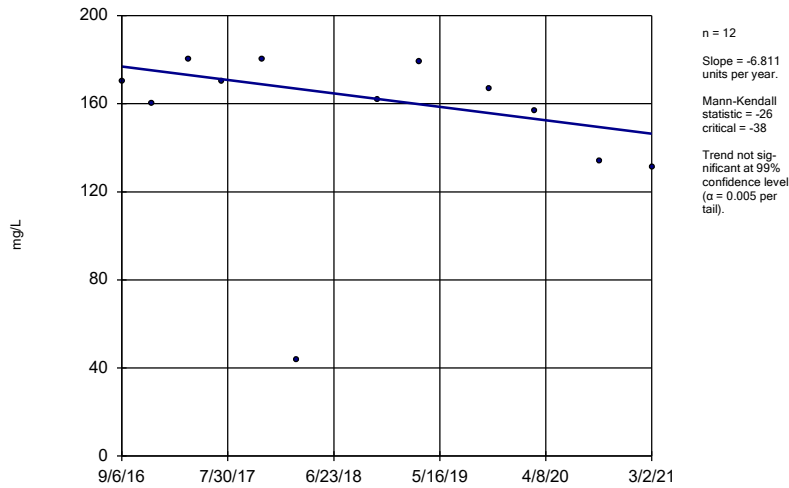
DGWC-12



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

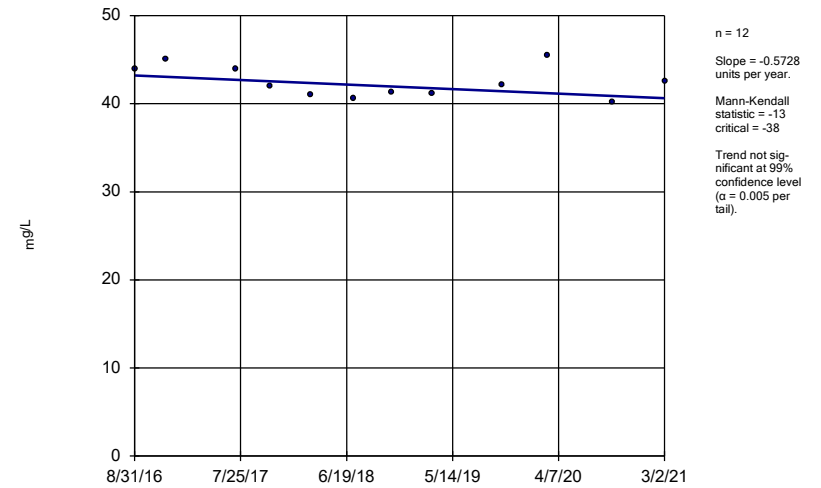
DGWC-13



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

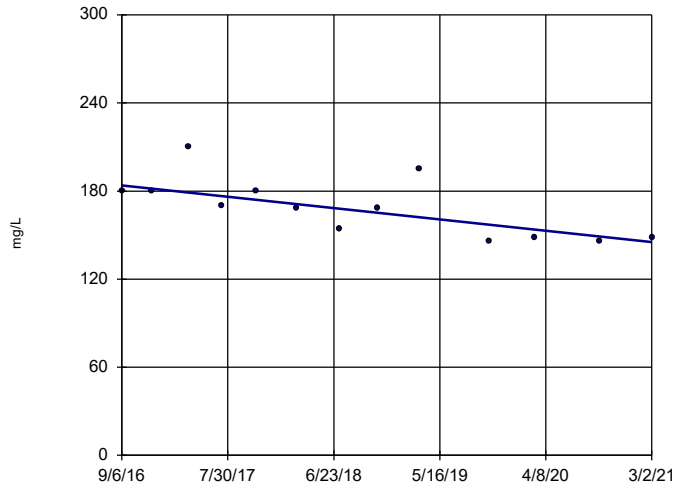
DGWC-14



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

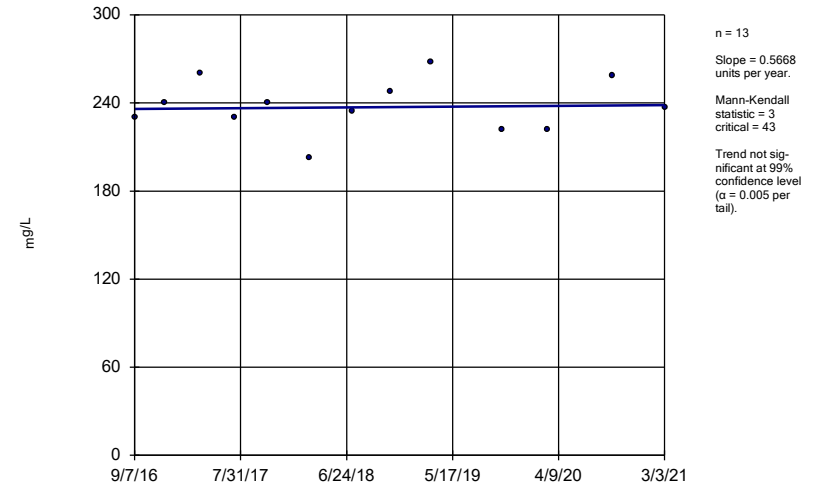
DGWC-15



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

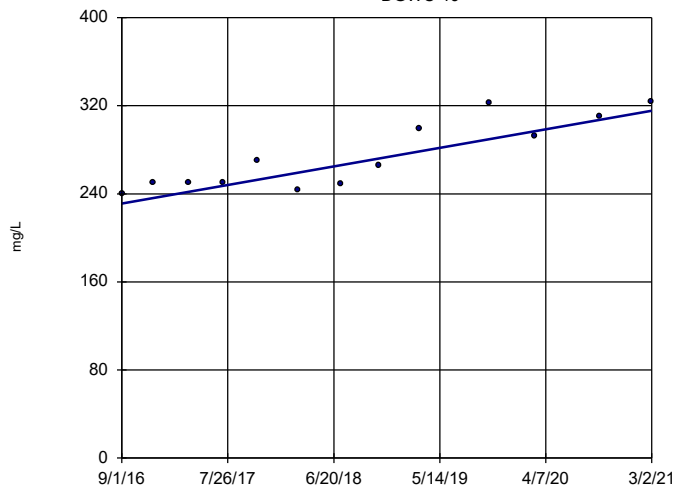
DGWC-17



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

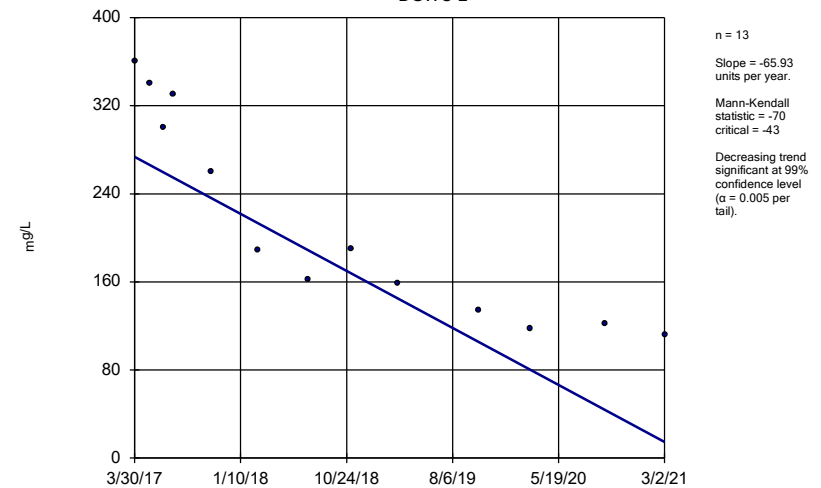
DGWC-19



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

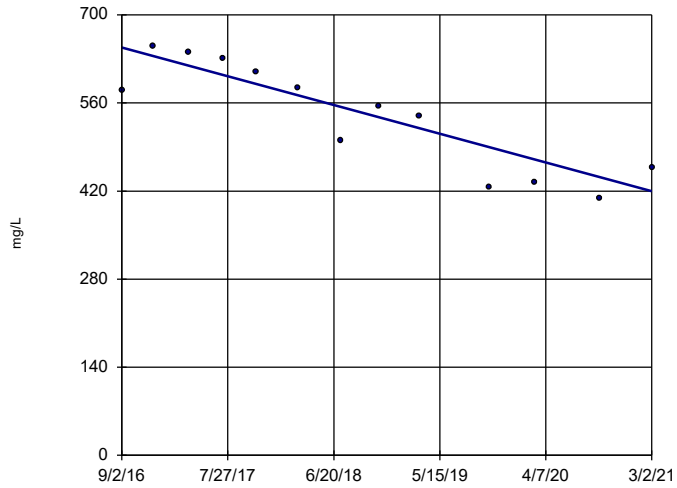
DGWC-2



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-20

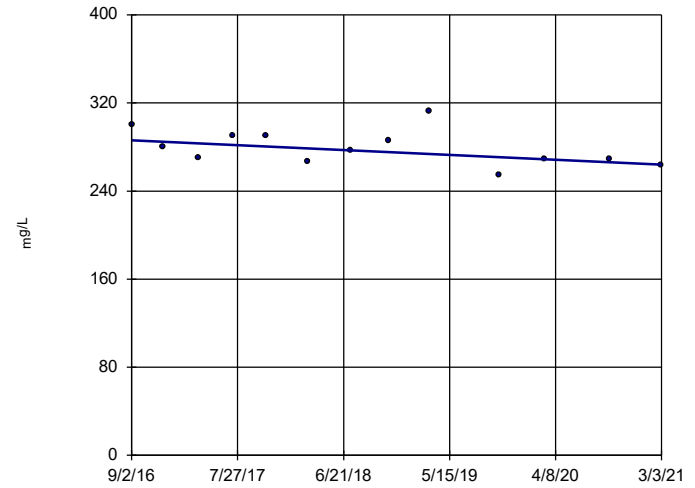


n = 13
 Slope = -50.74
 units per year.
 Mann-Kendall
 statistic = -56
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-21

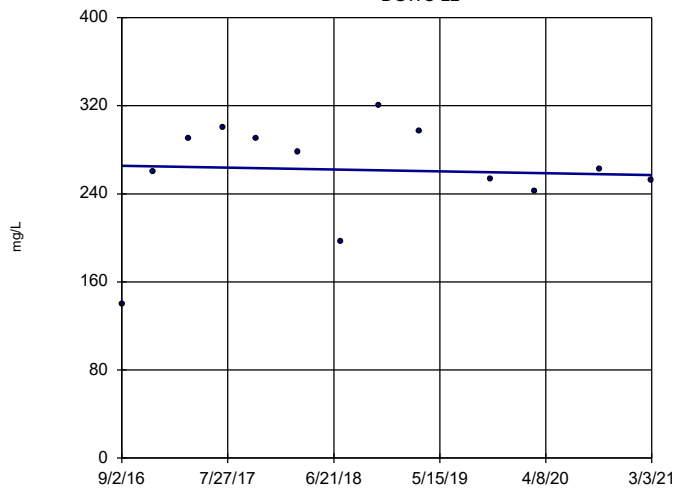


n = 13
 Slope = -4.956
 units per year.
 Mann-Kendall
 statistic = -30
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-22

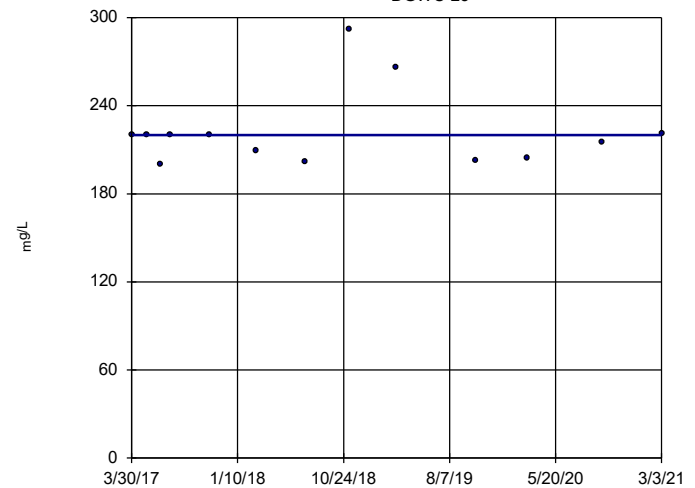


n = 13
 Slope = -1.843
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-23

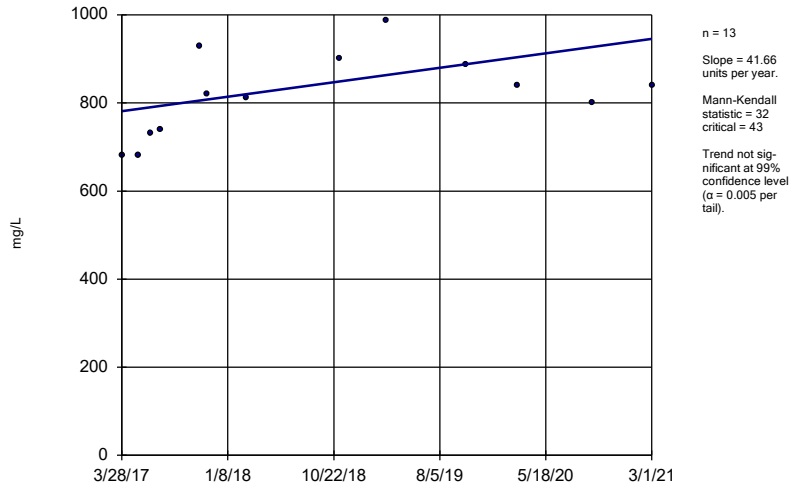


n = 13
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

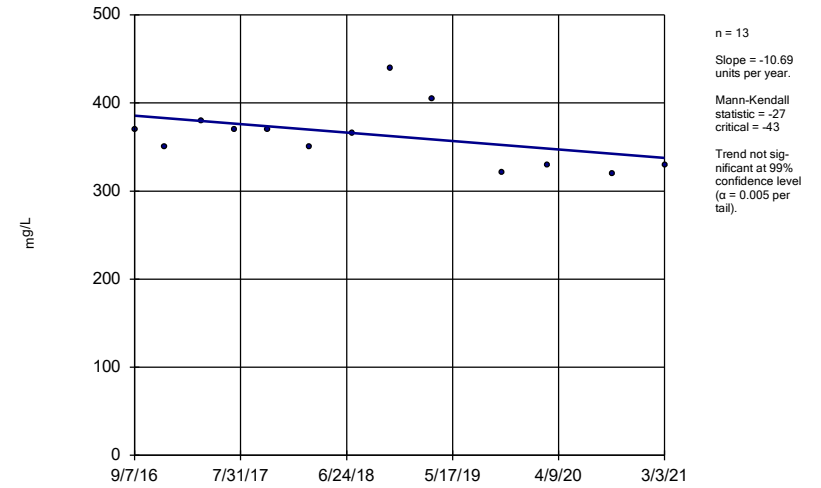
DGWC-4



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

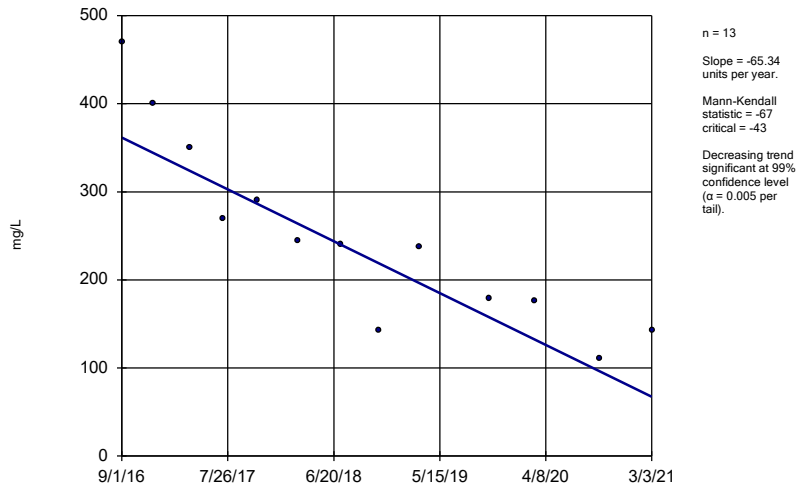
DGWC-42



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

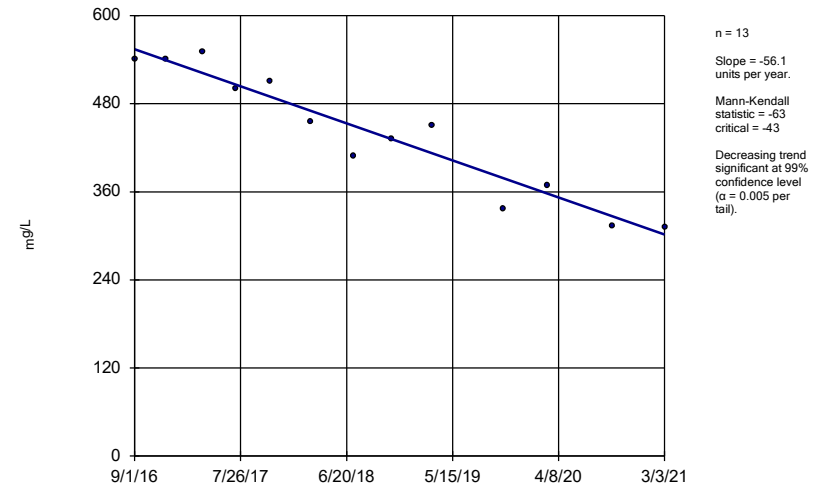
DGWC-47



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

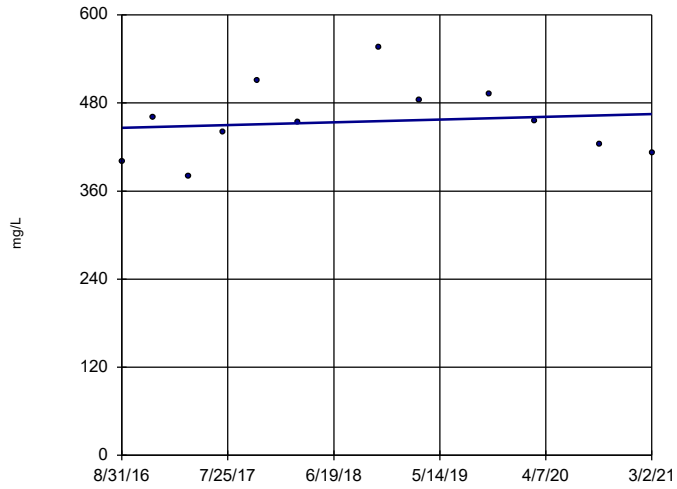
DGWC-48



Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-5

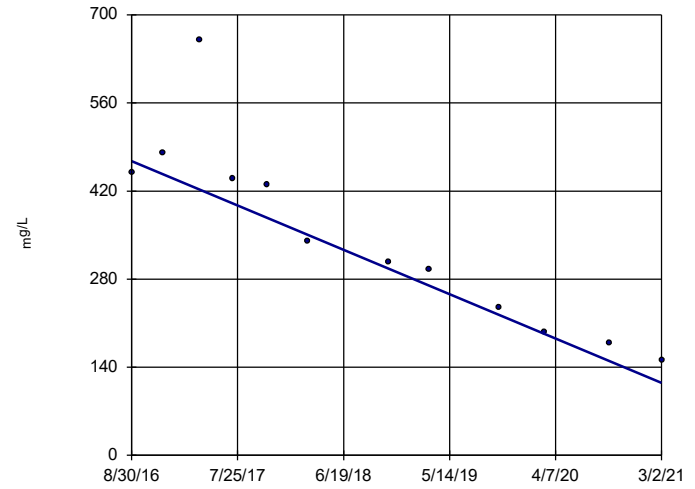


n = 12
Slope = 4.163
units per year.
Mann-Kendall
statistic = 4
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-8

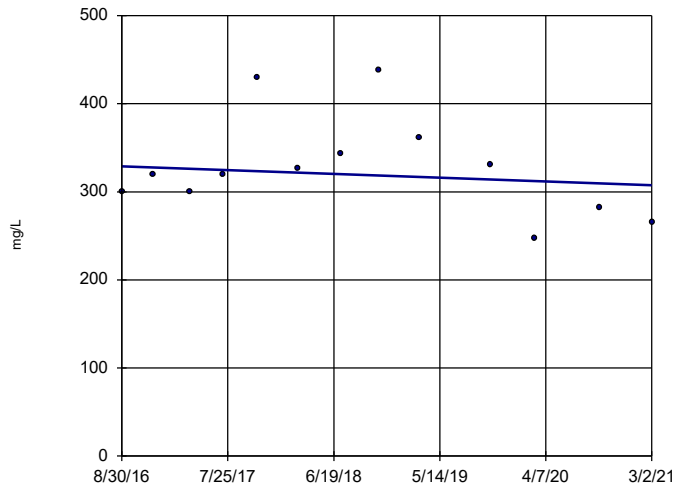


n = 12
Slope = -78.21
units per year.
Mann-Kendall
statistic = -60
critical = -38
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-9

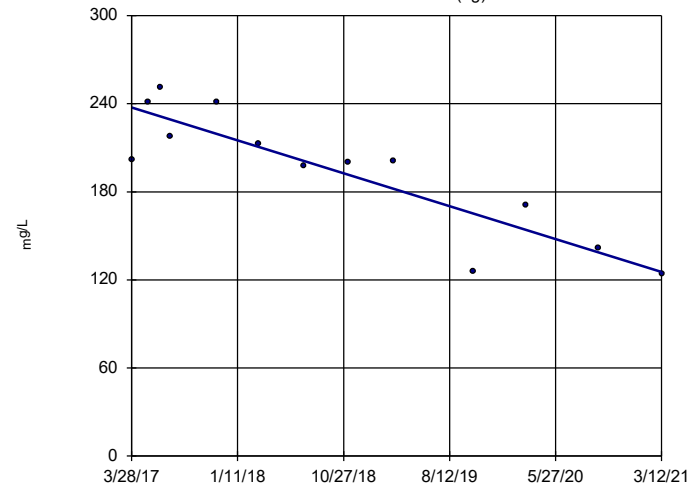


n = 13
Slope = -4.792
units per year.
Mann-Kendall
statistic = -4
critical = -43
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-53 (bg)

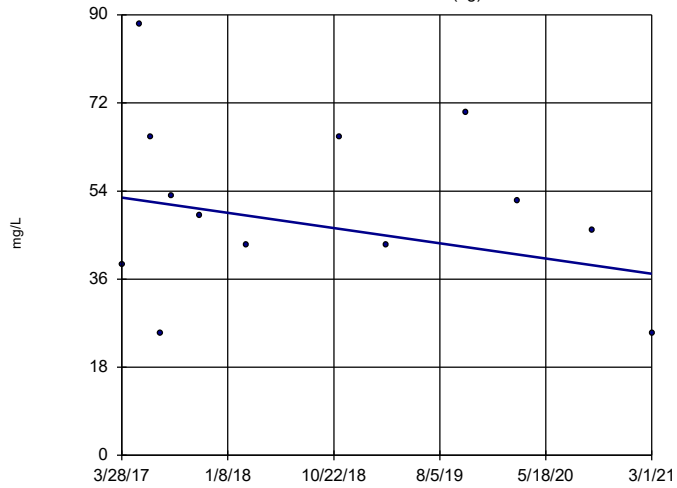


n = 13
Slope = -28.3
units per year.
Mann-Kendall
statistic = -53
critical = -43
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-70A (bg)

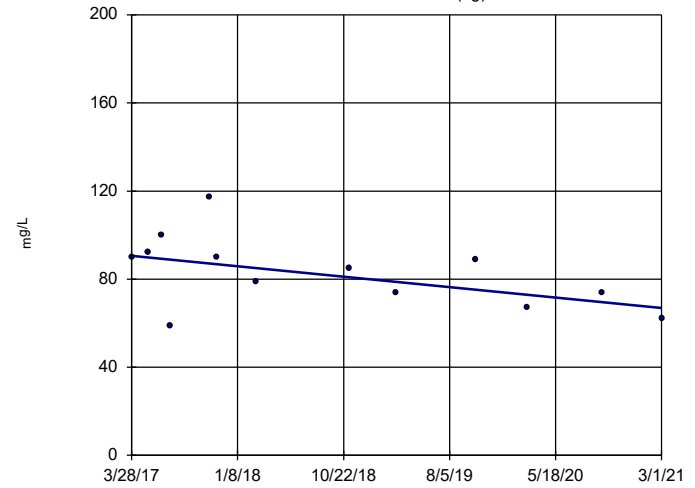


n = 13
 Slope = -3.954 units per year.
 Mann-Kendall statistic = -11
 critical = -43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-71 (bg)

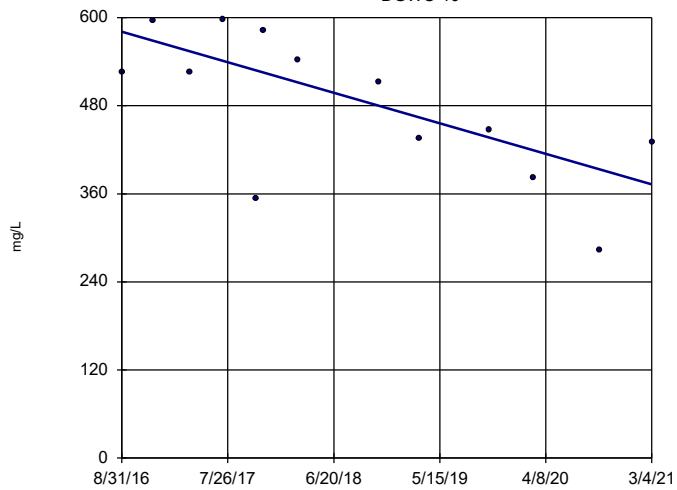


n = 13
 Slope = -6.025 units per year.
 Mann-Kendall statistic = -36
 critical = -43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-10

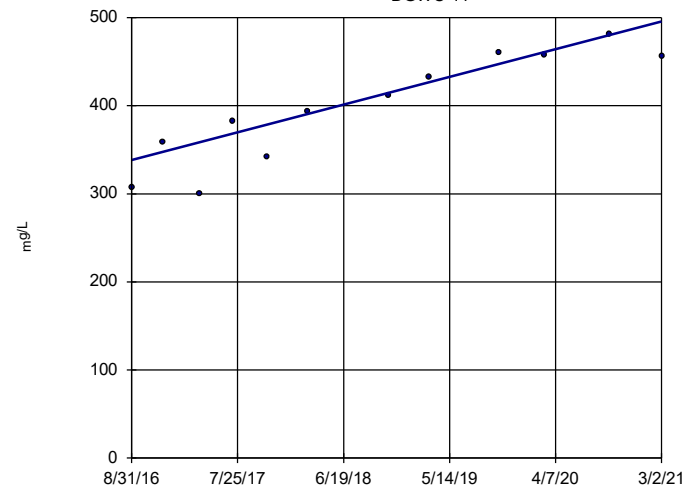


n = 13
 Slope = -46.06 units per year.
 Mann-Kendall statistic = -41
 critical = -43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-11

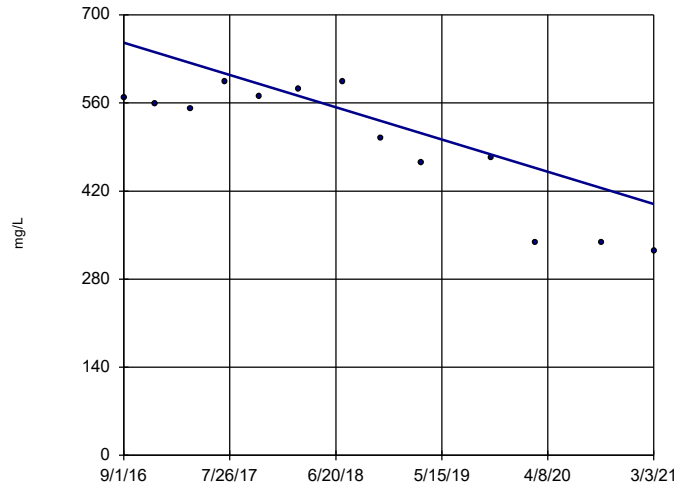


n = 12
 Slope = 34.89 units per year.
 Mann-Kendall statistic = 50
 critical = 38
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-12

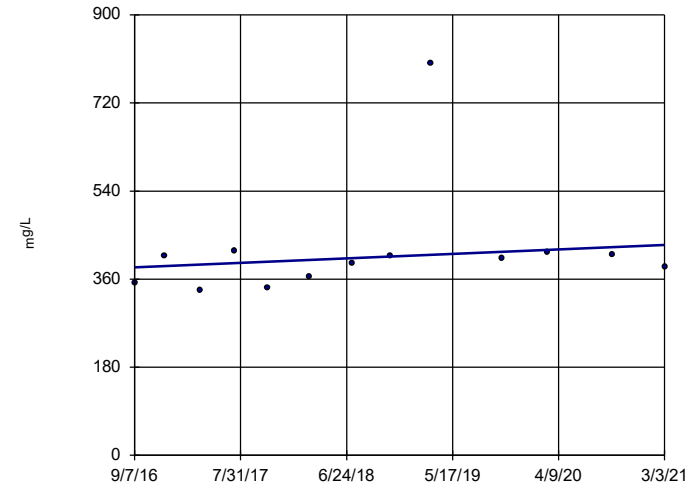


n = 13
 Slope = -56.94
 units per year.
 Mann-Kendall
 statistic = -45
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-17

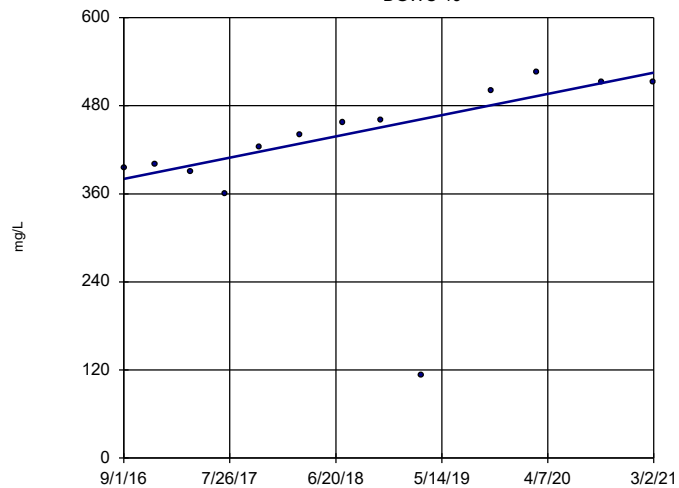


n = 13
 Slope = 10.22
 units per year.
 Mann-Kendall
 statistic = 23
 critical = 43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-19

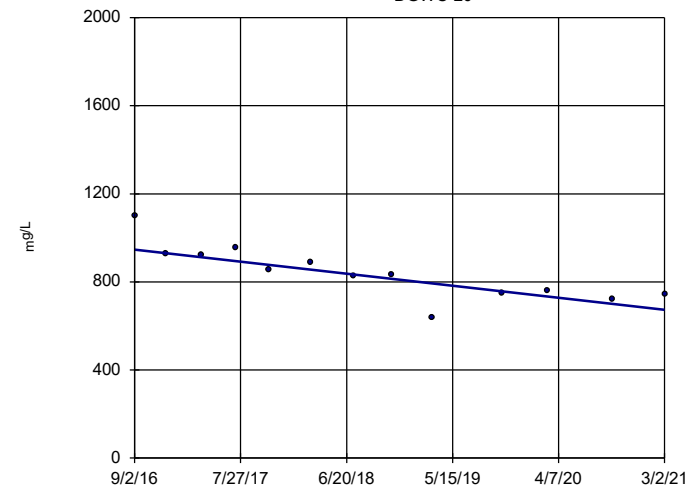


n = 13
 Slope = 32.2
 units per year.
 Mann-Kendall
 statistic = 47
 critical = 43
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-20

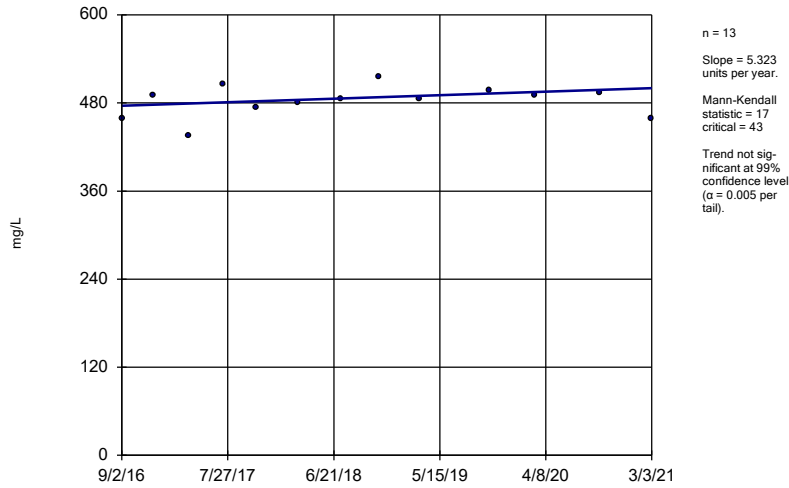


n = 13
 Slope = -60.85
 units per year.
 Mann-Kendall
 statistic = -58
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

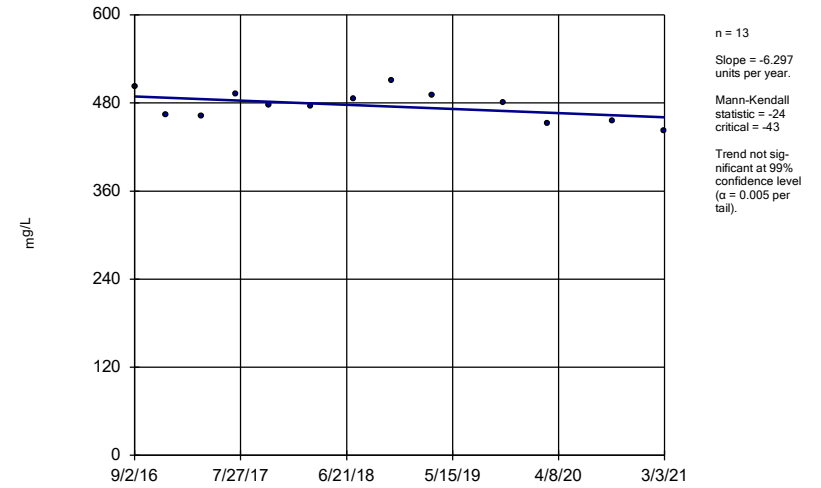
DGWC-21



Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

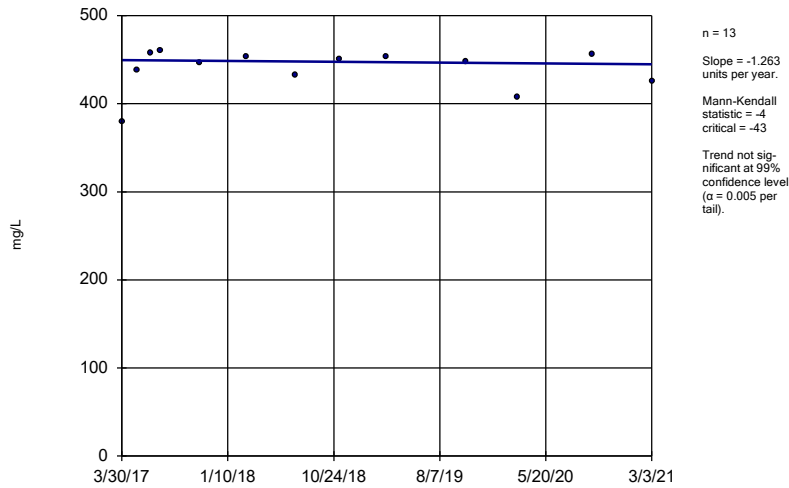
DGWC-22



Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

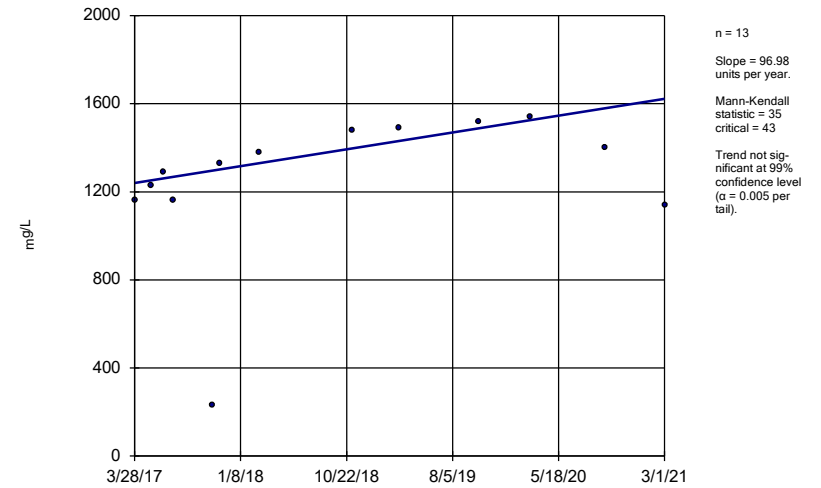
DGWC-23



Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

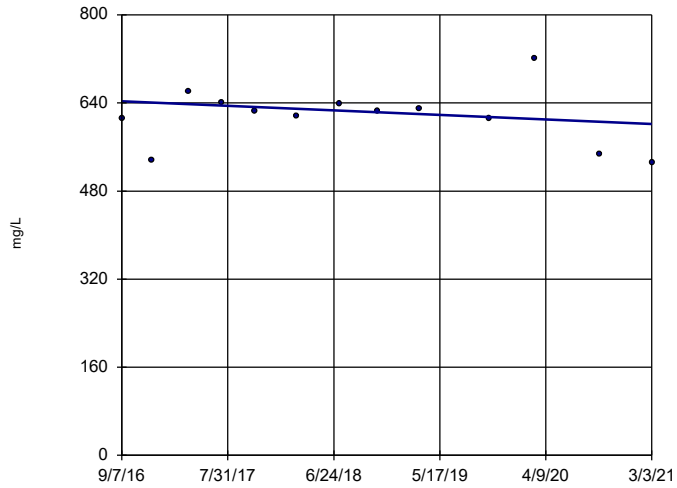
DGWC-4



Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

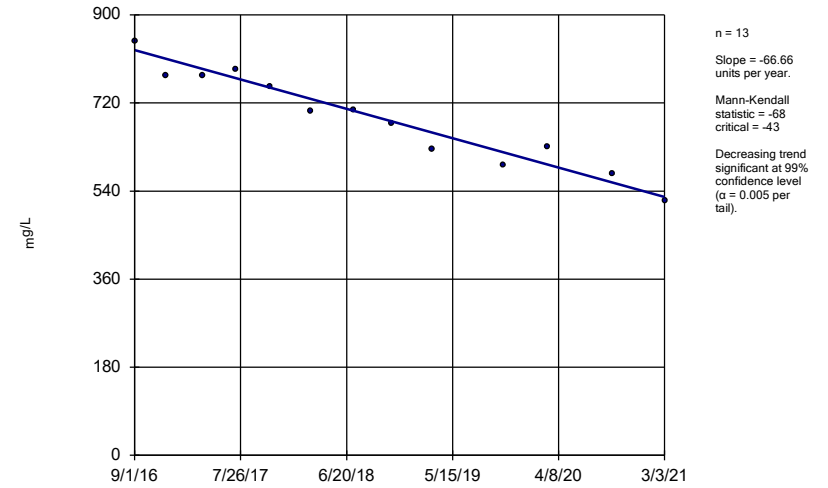
DGWC-42



Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

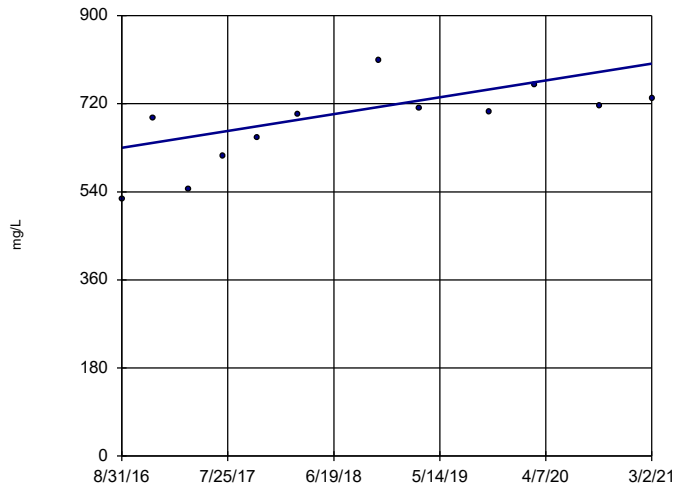
DGWC-48



Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

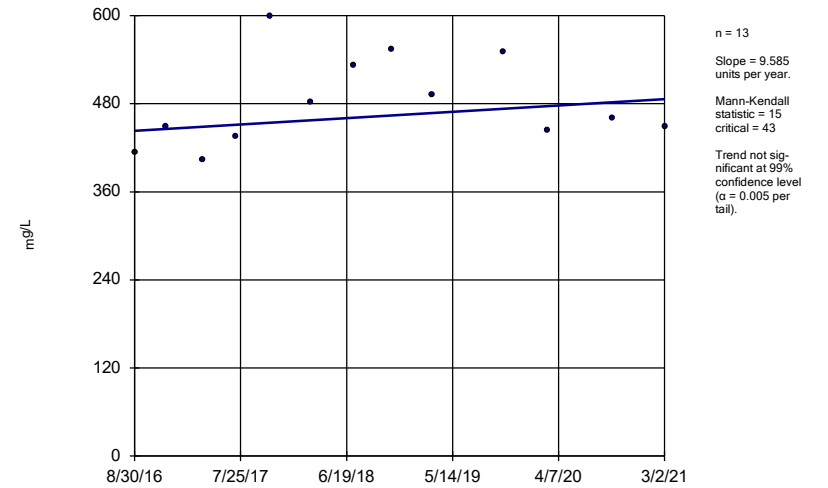
DGWC-5



Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-9



Constituent: TDS Analysis Run 4/21/2021 10:06 AM View: Trend Tests AP234
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

Tolerance Limits Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 5/21/2021, 11:40 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.0030	41	n/a	n/a	80.49	n/a	n/a	0.1221	NP Inter
Arsenic (mg/L)	0.0050	41	n/a	n/a	80.49	n/a	n/a	0.1221	NP Inter
Barium (mg/L)	0.19	41	n/a	n/a	0	n/a	n/a	0.1221	NP Inter
Beryllium (mg/L)	0.00050	41	n/a	n/a	65.85	n/a	n/a	0.1221	NP Inter
Cadmium (mg/L)	0.00050	41	n/a	n/a	92.68	n/a	n/a	0.1221	NP Inter
Chromium (mg/L)	0.0050	40	n/a	n/a	57.5	n/a	n/a	0.1285	NP Inter
Cobalt (mg/L)	0.032	41	n/a	n/a	34.15	n/a	n/a	0.1221	NP Inter
Combined Radium 226 + 228 (pCi/L)	6.4	43	n/a	n/a	0	n/a	n/a	0.1102	NP Inter
Fluoride (mg/L)	0.42	45	n/a	n/a	51.11	n/a	n/a	0.09944	NP Inter
Lead (mg/L)	0.0010	41	n/a	n/a	78.05	n/a	n/a	0.1221	NP Inter
Lithium (mg/L)	0.030	41	n/a	n/a	36.59	n/a	n/a	0.1221	NP Inter
Mercury (mg/L)	0.00020	41	n/a	n/a	87.8	n/a	n/a	0.1221	NP Inter
Molybdenum (mg/L)	0.041	41	n/a	n/a	63.41	n/a	n/a	0.1221	NP Inter
Selenium (mg/L)	0.0050	41	n/a	n/a	100	n/a	n/a	0.1221	NP Inter
Thallium (mg/L)	0.0010	41	n/a	n/a	95.12	n/a	n/a	0.1221	NP Inter

FIGURE G.

MCDONOUGH AP-2,3,4 GWPS TABLE					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.19	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.032	0.032	0.032
Combined Radium, Total (pCi/L)	5		6.4	6.4	6.4
Fluoride, Total (mg/L)	4		0.42	4	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015	0.001
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.041	0.1	0.041
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule Specified levels.*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Federal Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02965	0.01886	0.01	Yes	14	0.02451	0.00806	7.143	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009375	0.005518	0.004	Yes	13	0.007446	0.002593	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01307	0.009031	0.004	Yes	14	0.01105	0.00285	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009361	0.007596	0.004	Yes	14	0.008479	0.001246	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008799	0.006078	0.004	Yes	13	0.007438	0.00183	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005963	0.004937	0.004	Yes	14	0.00545	0.000724	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1913	0.1407	0.032	Yes	13	0.1597	0.04498	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05308	0.04895	0.032	Yes	14	0.05101	0.00292	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6624	0.4681	0.032	Yes	14	0.5652	0.1372	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3954	0.2561	0.032	Yes	14	0.3258	0.09832	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5152	0.4077	0.032	Yes	14	0.4614	0.07592	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09119	0.04656	0.032	Yes	13	0.06888	0.03001	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.1998	0.1395	0.032	Yes	14	0.1697	0.04256	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05663	0.03737	0.032	Yes	4	0.047	0.004243	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.07153	0.05797	0.032	Yes	4	0.06475	0.002986	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07581	0.05851	0.04	Yes	14	0.06716	0.01221	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1285	0.1075	0.04	Yes	14	0.118	0.01479	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.136	0.05177	0.05	Yes	14	0.0939	0.05947	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-62	0.015	0.00046	0.006	No	6	0.01258	0.005936	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-77	0.015	0.00036	0.006	No	5	0.006284	0.007957	40	None	No	0.031	NP (normality)
Antimony (mg/L)	DGWC-12	0.015	0.0003	0.006	No	15	0.01402	0.003796	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.015	0.0011	0.006	No	14	0.01401	0.003715	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.015	0.00073	0.006	No	14	0.01293	0.005255	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.015	0.00045	0.006	No	14	0.01396	0.003889	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.015	0.00036	0.006	No	14	0.01395	0.003913	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.015	0.0006	0.006	No	14	0.01397	0.003849	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.015	0.0013	0.006	No	14	0.01402	0.003661	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.015	0.0007	0.006	No	14	0.01398	0.003822	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.015	0.00058	0.006	No	13	0.01168	0.006305	76.92	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.015	0.0012	0.006	No	14	0.01401	0.003688	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.015	0.00039	0.006	No	14	0.01396	0.003905	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.015	0.0015	0.006	No	13	0.01283	0.005297	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.015	0.00046	0.006	No	13	0.01388	0.004033	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-77	0.025	0.002	0.01	No	5	0.00688	0.01014	20	None	No	0.031	NP (normality)
Arsenic (mg/L)	DGWC-10	0.007102	0.003329	0.01	No	13	0.005215	0.002537	7.692	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.025	0.00063	0.01	No	15	0.02175	0.00858	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.025	0.00039	0.01	No	14	0.02324	0.006577	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.025	0.0013	0.01	No	14	0.01982	0.01029	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.025	0.0008	0.01	No	14	0.01471	0.01233	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001904	0.0008429	0.01	No	14	0.005146	0.008486	21.43	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.025	0.0025	0.01	No	14	0.02168	0.00845	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01726	0.00744	0.01	No	14	0.01235	0.006931	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.025	0.001	0.01	No	14	0.02329	0.006414	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.025	0.0008	0.01	No	13	0.01937	0.0107	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.025	0.0011	0.01	No	14	0.02156	0.008752	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.005	0.0012	0.01	No	14	0.005557	0.008322	21.43	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-48	0.025	0.0008	0.01	No	14	0.01308	0.01238	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-5	0.01377	0.002745	0.01	No	13	0.01193	0.01166	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.025	0.001	0.01	No	13	0.0159	0.01199	61.54	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-9	0.02965	0.01886	0.01	Yes	14	0.02451	0.00806	7.143	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-62	0.02823	0.01974	2	No	6	0.02417	0.003312	0	None	x^2	0.01	Param.
Barium (mg/L)	B-77	0.1267	0.08366	2	No	5	0.1052	0.01285	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03627	0.01773	2	No	4	0.027	0.004082	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.06641	0.008094	2	No	4	0.03725	0.01284	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.0301	0.0237	2	No	13	0.0269	0.004297	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06723	0.05668	2	No	13	0.06195	0.007093	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03098	0.02368	2	No	15	0.02745	0.005573	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03326	0.02738	2	No	13	0.02924	0.007645	7.692	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06288	0.05777	2	No	14	0.06033	0.003607	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.0512	0.04475	2	No	14	0.04798	0.004554	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05737	0.04323	2	No	14	0.0503	0.009982	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02545	0.02154	2	No	14	0.02349	0.002758	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02274	0.02126	2	No	14	0.022	0.001038	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01577	0.009132	2	No	14	0.01245	0.004684	7.143	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	14	0.02617	0.00131	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03811	0.03268	2	No	14	0.03539	0.003832	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02383	0.01824	2	No	14	0.02114	0.004247	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03647	0.03224	2	No	13	0.03435	0.002842	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.02068	0.01657	2	No	14	0.01867	0.003023	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01959	0.01568	2	No	14	0.01764	0.002756	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01446	0.01299	2	No	14	0.01372	0.001036	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01845	0.01679	2	No	12	0.01762	0.001059	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03886	0.02791	2	No	13	0.03338	0.007359	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	DGWC-9	0.01633	0.01495	2	No	14	0.01564	0.0009741	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0025	0.000078	0.004	No	7	0.0007897	0.001168	28.57	None	No	0.008	NP (normality)
Beryllium (mg/L)	B-63	0.0025	0.0003	0.004	No	5	0.000808	0.0009485	20	None	No	0.031	NP (normality)
Beryllium (mg/L)	B-77	0.0025	0.000053	0.004	No	5	0.000572	0.001078	20	None	No	0.031	NP (normality)
Beryllium (mg/L)	B-82	0.001741	0.0008959	0.004	No	4	0.001375	0.0001893	0	None	x^2	0.01	Param.
Beryllium (mg/L)	B-83	0.0008505	0.00001946	0.004	No	4	0.000435	0.000183	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.02365	0.003296	0.004	No	4	0.01348	0.004484	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009375	0.005518	0.004	Yes	13	0.007446	0.002593	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00012	0.004	No	13	0.001448	0.00127	53.85	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-12	0.00049	0.00016	0.004	No	15	0.0005483	0.0009035	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	13	0.001791	0.001201	69.23	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	14	0.002198	0.0008831	85.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00071	0.0005	0.004	No	14	0.0008621	0.0006966	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.0025	0.0018	0.004	No	14	0.002029	0.0003451	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.0057	0.0025	0.004	No	14	0.003907	0.001923	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-21	0.0025	0.0001	0.004	No	14	0.0005307	0.000946	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0025	0.00014	0.004	No	14	0.0005357	0.0009437	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.00077	0.00038	0.004	No	14	0.0007693	0.0008509	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.0025	0.00019	0.004	No	13	0.0005931	0.000964	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002779	0.002164	0.004	No	14	0.002471	0.000434	7.143	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01307	0.009031	0.004	Yes	14	0.01105	0.00285	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009361	0.007596	0.004	Yes	14	0.008479	0.001246	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008799	0.006078	0.004	Yes	13	0.007438	0.00183	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003316	0.001715	0.004	No	13	0.002515	0.001077	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005963	0.004937	0.004	Yes	14	0.00545	0.000724	0	None	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0008228	0.0001922	0.005	No	4	0.0005075	0.0001389	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004871	0.0001929	0.005	No	4	0.00034	0.00006481	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001237	0.0008415	0.005	No	13	0.001039	0.000266	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00013	0.005	No	13	0.0004162	0.0001596	76.92	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003448	0.0002215	0.005	No	15	0.0003873	0.0001963	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	13	0.0004446	0.0001374	84.62	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	14	0.0004236	0.0002458	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	14	0.0003036	0.00009195	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No	14	0.0004243	0.0001722	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002887	0.0001286	0.005	No	14	0.0003571	0.0002393	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002266	0.001806	0.005	No	14	0.002036	0.0003249	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007507	0.0005278	0.005	No	14	0.0006393	0.0001574	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007098	0.0004416	0.005	No	14	0.0005757	0.0001893	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0005	0.00018	0.005	No	14	0.0003043	0.0002174	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0007665	0.0005618	0.005	No	13	0.0007054	0.0001506	15.38	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001165	0.0004751	0.005	No	14	0.0008521	0.0005665	14.29	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002239	0.001233	0.005	No	14	0.001736	0.0007099	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.004409	0.002455	0.005	No	14	0.003579	0.001733	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.0007387	0.0003671	0.005	No	13	0.0006046	0.0002635	15.38	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002555	0.001968	0.005	No	13	0.002262	0.0003948	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006877	0.0005003	0.005	No	14	0.0005971	0.0001413	14.29	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-62	0.025	0.00098	0.1	No	6	0.021	0.009806	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-77	0.025	0.00068	0.1	No	5	0.005892	0.0107	20	None	No	0.031	NP (normality)
Chromium (mg/L)	B-82	0.025	0.0011	0.1	No	4	0.01903	0.01195	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No	4	0.004175	0.001652	0	None	No	0.0625	NP (selected)
Chromium (mg/L)	DGWC-10	0.025	0.0007	0.1	No	13	0.008269	0.01161	30.77	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.025	0.0006	0.1	No	13	0.01749	0.01172	69.23	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.025	0.00099	0.1	No	15	0.0218	0.008457	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.025	0.00066	0.1	No	13	0.01753	0.01166	69.23	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.025	0.00058	0.1	No	14	0.01724	0.01105	71.43	None	No	0.01	NP (NDs)

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No	14	0.005929	0.008088	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.01	0.0023	0.1	No	14	0.006307	0.008166	21.43	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.025	0.00046	0.1	No	14	0.01451	0.01257	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.025	0.0015	0.1	No	14	0.009071	0.01068	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.025	0.0005	0.1	No	14	0.01464	0.01242	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.025	0.0012	0.1	No	14	0.0233	0.006361	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.025	0.0005	0.1	No	14	0.007701	0.01136	28.57	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.025	0.0005	0.1	No	13	0.02312	0.006795	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.025	0.0005	0.1	No	14	0.01295	0.01252	50	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-47	0.025	0.0007	0.1	No	14	0.02326	0.006494	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.025	0.0007	0.1	No	14	0.02151	0.008879	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.025	0.00045	0.1	No	13	0.02311	0.006809	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.025	0.00061	0.1	No	13	0.01404	0.01234	53.85	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.025	0.00059	0.1	No	14	0.01492	0.01215	57.14	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	5	0.0626	0.02871	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-62	0.0125	0.0003	0.032	No	6	0.008435	0.006297	66.67	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	B-63	0.05663	0.03737	0.032	Yes	4	0.047	0.004243	0	None	No	0.01	Param.
Cobalt (mg/L)	B-66	0.01156	0.004037	0.032	No	4	0.008975	0.002876	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	5	0.00168	0.001021	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-82	0.0091	0.00005969	0.032	No	5	0.00458	0.002698	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	4	0.01405	0.006498	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	4	0.01115	0.01037	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-93	0.07153	0.05797	0.032	Yes	4	0.06475	0.002986	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1913	0.1407	0.032	Yes	13	0.1597	0.04498	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0125	0.0006	0.032	No	13	0.006148	0.006122	46.15	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.008715	0.002819	0.032	No	15	0.007067	0.007151	13.33	None	ln(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.0125	0.0004	0.032	No	13	0.009714	0.005295	76.92	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0042	0.0015	0.032	No	14	0.004514	0.006548	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02759	0.02038	0.032	No	14	0.02342	0.006545	7.143	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05308	0.04895	0.032	Yes	14	0.05101	0.00292	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.0266	0.01044	0.032	No	14	0.01852	0.0114	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6624	0.4681	0.032	Yes	14	0.5652	0.1372	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.01042	0.00825	0.032	No	14	0.009264	0.001642	14.29	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.01056	0.008065	0.032	No	14	0.009314	0.001763	14.29	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0125	0.00039	0.032	No	14	0.00764	0.00594	64.29	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.005	0.0015	0.032	No	13	0.0028	0.003059	15.38	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04655	0.01846	0.032	No	14	0.03251	0.01983	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3954	0.2561	0.032	Yes	14	0.3258	0.09832	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5152	0.4077	0.032	Yes	14	0.4614	0.07592	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.0432	0.02	0.032	No	13	0.0284	0.01141	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.09119	0.04656	0.032	Yes	13	0.06888	0.03001	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.1998	0.1395	0.032	Yes	14	0.1697	0.04256	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.146	1.006	6.4	No	5	1.576	0.3399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.761	6.4	No	4	1.74	0.6675	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	6.4	No	4	0.732	0.4866	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.529	1.097	6.4	No	14	1.313	0.3047	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.278	0.628	6.4	No	14	0.9529	0.4588	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.208	0.3559	6.4	No	14	0.8355	0.6964	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.505	1.02	6.4	No	14	1.262	0.3426	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.132	0.6987	6.4	No	14	0.9154	0.3058	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.636	0.5457	6.4	No	14	1.153	0.8967	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.068	0.5494	6.4	No	14	0.8085	0.3658	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.08	0.5429	6.4	No	14	0.8115	0.3792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.463	0.8655	6.4	No	14	1.164	0.4217	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.592	0.9015	6.4	No	14	1.247	0.4874	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
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.157	0.5765	6.4	No	14	0.8667	0.4098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.411	0.7487	6.4	No	14	1.08	0.4673	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.446	0.7232	6.4	No	14	1.085	0.51	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.743	1.164	6.4	No	14	1.454	0.4088	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.17	0.7016	6.4	No	14	0.9356	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.952	1.739	6.4	No	14	2.346	0.856	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.433	1.56	6.4	No	14	2.017	0.6658	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.89	1.013	6.4	No	14	1.452	0.619	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.831	0.4529	6.4	No	14	0.6419	0.2669	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.453	0.9271	6.4	No	14	1.19	0.3711	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.4478	0.02966	4	No	5	0.1946	0.1426	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.096	4	No	4	0.099	0.002	75	None	No	0.0625	NP (NDs)
Fluoride, total (mg/L)	B-83	0.1493	0.006499	4	No	4	0.08775	0.03484	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.819	1.311	4	No	15	1.565	0.3749	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	14	0.079	0.0265	57.14	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1853	0.05213	4	No	15	0.1627	0.149	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2244	0.08651	4	No	14	0.1623	0.1114	7.143	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No	15	0.08493	0.02708	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	15	0.1057	0.04512	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.297	0.1042	4	No	15	0.2133	0.1559	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.541	0.1751	4	No	15	0.384	0.3196	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No	15	0.1489	0.1623	40	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9883	0.4184	4	No	15	0.7033	0.4205	6.667	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No	15	0.1075	0.06895	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No	15	0.1197	0.06742	46.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.258	0.0936	4	No	15	0.1919	0.1589	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	15	0.1388	0.1835	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	15	0.092	0.02242	86.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.191	0.5527	4	No	15	0.872	0.4711	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.231	0.6281	4	No	15	0.9293	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.86	0.2558	4	No	14	0.5957	0.4593	7.143	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4684	0.1363	4	No	14	0.3024	0.2344	14.29	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.293	0.9536	4	No	15	1.123	0.2505	0	None	No	0.01	Param.
Lead (mg/L)	B-77	0.001564	0.00006121	0.015	No	5	0.001484	0.002048	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-82	0.0002577	0.00003979	0.015	No	4	0.001332	0.002446	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-83	0.00092	0.000065	0.015	No	4	0.0003188	0.0004031	0	None	No	0.0625	NP (selected)
Lead (mg/L)	DGWC-10	0.005	0.000092	0.015	No	13	0.002752	0.002527	53.85	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.005	0.000076	0.015	No	13	0.003115	0.002481	61.54	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.005	0.00011	0.015	No	15	0.004347	0.001722	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.005	0.0002	0.015	No	13	0.004254	0.001822	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.005	0.000096	0.015	No	14	0.003944	0.002097	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.005	0.000082	0.015	No	14	0.002981	0.002435	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.005	0.00009	0.015	No	14	0.002557	0.002536	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-19	0.005	0.00007	0.015	No	14	0.003256	0.002428	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.005	0.000086	0.015	No	14	0.002195	0.002521	42.86	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.005	0.00015	0.015	No	14	0.002998	0.002404	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.005	0.00014	0.015	No	14	0.00259	0.002502	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-23	0.005	0.000066	0.015	No	14	0.004648	0.001319	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.005	0.0001	0.015	No	13	0.003498	0.002346	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0016	0.0002	0.015	No	14	0.001087	0.001699	14.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-47	0.005	0.00053	0.015	No	14	0.001658	0.001822	21.43	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0035	0.00095	0.015	No	14	0.001998	0.001463	14.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.005	0.000051	0.015	No	13	0.001798	0.002308	30.77	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.005	0.0001	0.015	No	13	0.002445	0.002467	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.005	0.00028	0.015	No	14	0.003971	0.002044	78.57	None	No	0.01	NP (NDs)

Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No 6	0.0094	0.002773	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No 4	0.00855	0.004303	25	None	No	0.0625	NP (normality)
Lithium (mg/L)	B-77	0.0047	0.00095	0.04	No 5	0.00243	0.001649	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.04	No 4	0.002525	0.001441	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-83	0.005556	0.0002944	0.04	No 4	0.002925	0.001159	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-10	0.004225	0.002329	0.04	No 13	0.005362	0.004453	15.38	Kaplan-Meier	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No 13	0.003208	0.003556	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.00097	0.04	No 15	0.01035	0.006814	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.015	0.0028	0.04	No 13	0.004977	0.004456	15.38	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0042	0.0032	0.04	No 14	0.004743	0.003193	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.04	No 13	0.006292	0.0008655	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No 14	0.009036	0.007147	57.14	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.003	0.04	No 14	0.004029	0.003166	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.04	No 14	0.05085	0.03062	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No 14	0.0067	0.005703	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0054	0.04	No 14	0.0066	0.002444	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0047	0.0037	0.04	No 14	0.004907	0.00293	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01331	0.00359	0.04	No 14	0.01191	0.01899	7.143	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0024	0.04	No 13	0.003808	0.003388	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01232	0.009904	0.04	No 14	0.01111	0.001708	7.143	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07581	0.05851	0.04	Yes 14	0.06716	0.01221	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1285	0.1075	0.04	Yes 14	0.118	0.01479	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.00831	0.003998	0.04	No 13	0.006285	0.003179	7.692	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0075	0.0045	0.04	No 13	0.006238	0.002831	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02951	0.02298	0.04	No 14	0.02624	0.004608	7.143	None	No	0.01	Param.
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No 4	0.0001775	0.000045	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	DGWC-10	0.0002	0.00008	0.002	No 13	0.0001632	0.00005767	69.23	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00006	0.002	No 13	0.0001685	0.00006026	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00006	0.002	No 15	0.0001511	0.00006562	60	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No 13	0.0001815	0.00004525	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No 14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No 14	0.00019	0.00003742	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No 14	0.0001443	0.00006413	50	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No 14	0.00017	0.00006051	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No 14	0.0002052	0.0001354	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No 14	0.000175	0.00004973	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No 14	0.000155	0.00006454	64.29	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No 14	0.0001718	0.0000571	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002069	0.0001323	0.002	No 14	0.0001907	0.0000554	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.000082	0.002	No 13	0.0002117	0.000122	76.92	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No 14	0.0001886	0.00004276	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No 14	0.00019	0.00003742	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002	0.000094	0.002	No 13	0.0001842	0.000118	15.38	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-8	0.0002	0.00006	0.002	No 13	0.0001455	0.00006393	53.85	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No 14	0.0001916	0.0000896	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02721	0.01333	0.1	No 13	0.02027	0.009331	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No 14	0.005293	0.004249	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01127	0.006572	0.1	No 14	0.008921	0.003316	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007424	0.004715	0.1	No 13	0.006069	0.001821	7.692	None	No	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No 5	0.00434	0.001476	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-82	0.002418	0.001282	0.05	No 4	0.003425	0.00183	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-83	0.0317	0.001397	0.05	No 4	0.01655	0.006674	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-10	0.05457	0.02102	0.05	No 13	0.03779	0.02256	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.01	0.0017	0.05	No 15	0.00386	0.002327	53.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004566	0.001865	0.05	No 13	0.004177	0.002488	23.08	Kaplan-Meier	No	0.01	Param.

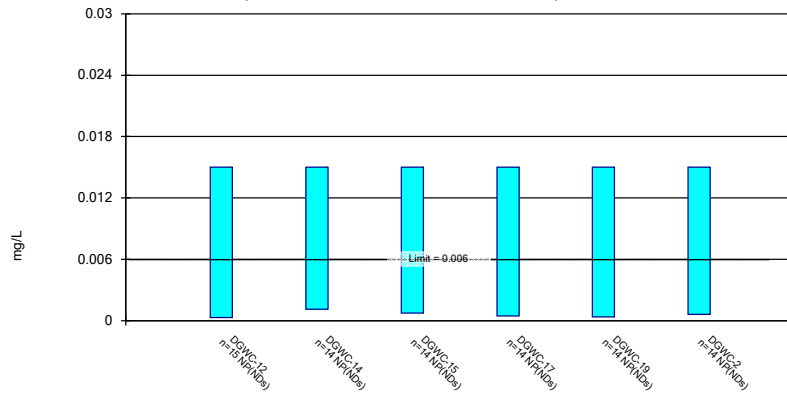
Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	14	0.004407	0.002227	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	14	0.005129	0.001641	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009481	0.006361	0.05	No	14	0.008014	0.002436	14.29	None	x ^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.009002	0.005583	0.05	No	14	0.007293	0.002414	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0046	0.05	No	14	0.005343	0.0015	50	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06981	0.03422	0.05	No	14	0.05201	0.02512	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	14	0.004764	0.000882	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	13	0.004723	0.0009985	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01358	0.005492	0.05	No	14	0.009536	0.005709	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008378	0.003779	0.05	No	14	0.006079	0.003247	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.04987	0.00968	0.05	No	13	0.03438	0.04333	7.692	None	x ^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.004333	0.002103	0.05	No	13	0.004554	0.002228	46.15	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.136	0.05177	0.05	Yes	14	0.0939	0.05947	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	4	0.0005523	0.000517	50	None	No	0.0625	NP (normality)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	4	0.000768	0.000464	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	13	0.0005077	0.0002284	15.38	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	15	0.0005778	0.0004673	53.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00015	0.002	No	14	0.000355	0.00035	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	14	0.0005429	0.0001435	7.143	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.001122	0.0005097	0.002	No	14	0.0009721	0.000504	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	14	0.0006667	0.000464	64.29	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	13	0.0009287	0.0002571	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	14	0.0007385	0.0004291	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	14	0.0003507	0.0002785	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	14	0.0006719	0.0004569	64.29	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.000078	0.002	No	13	0.0007954	0.00039	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	13	0.0004038	0.0003442	23.08	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.0006127	0.0004368	0.002	No	14	0.0007243	0.0002381	35.71	Kaplan-Meier	sqrt(x)	0.01	Param.

Non-Parametric Confidence Interval

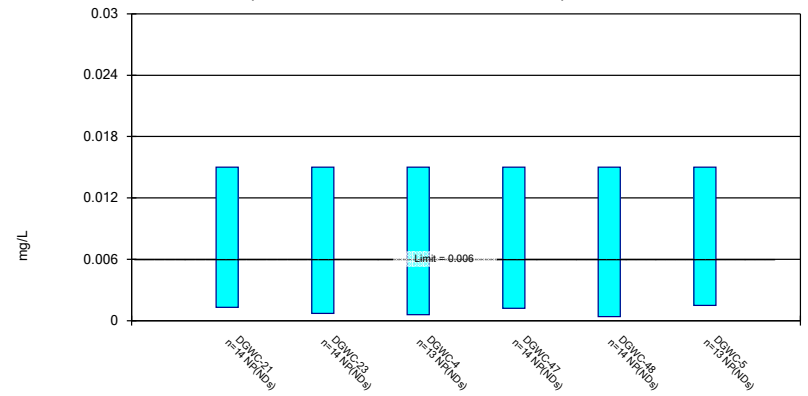
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

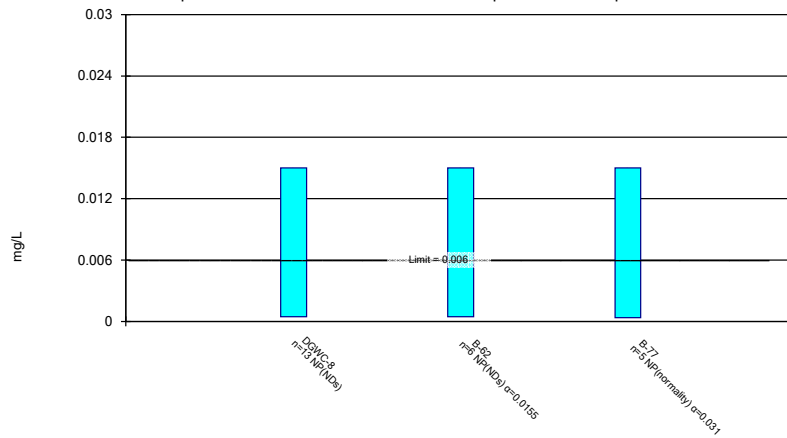
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

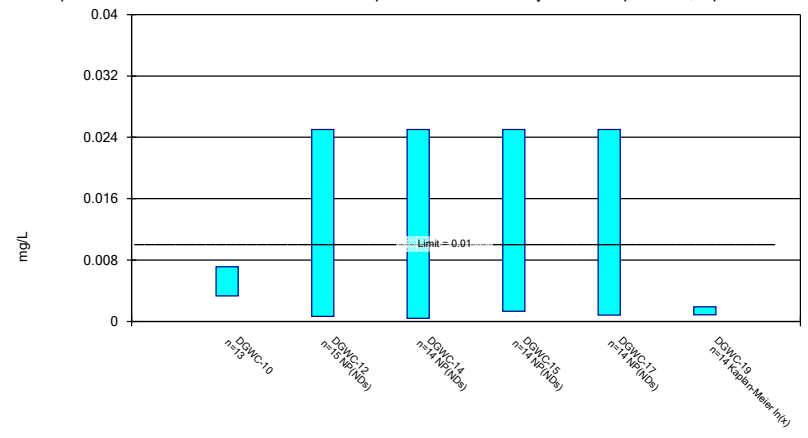
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

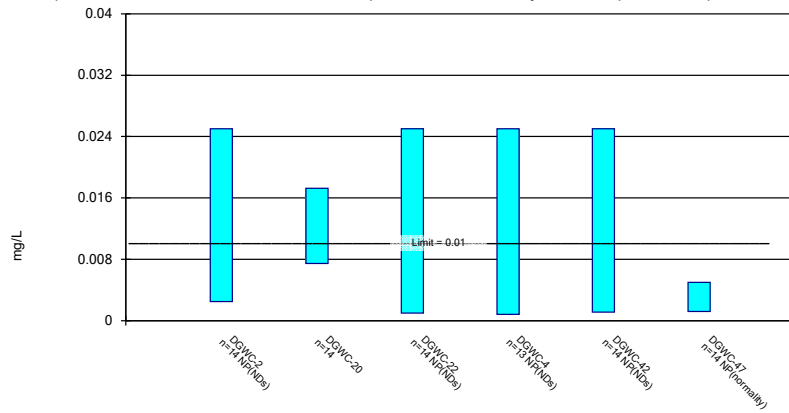
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

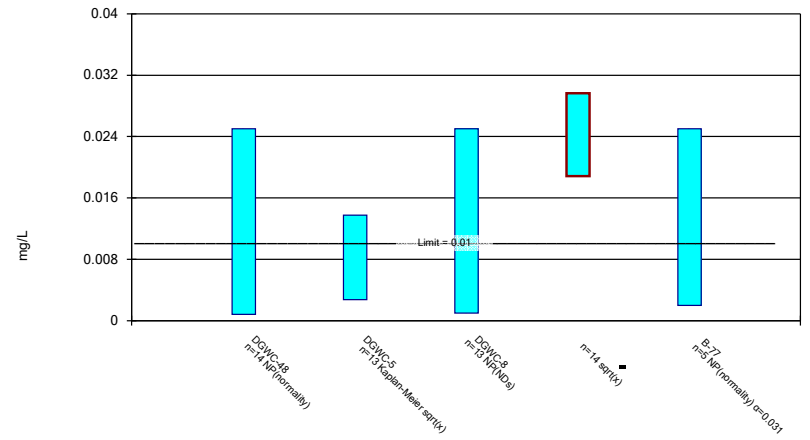
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

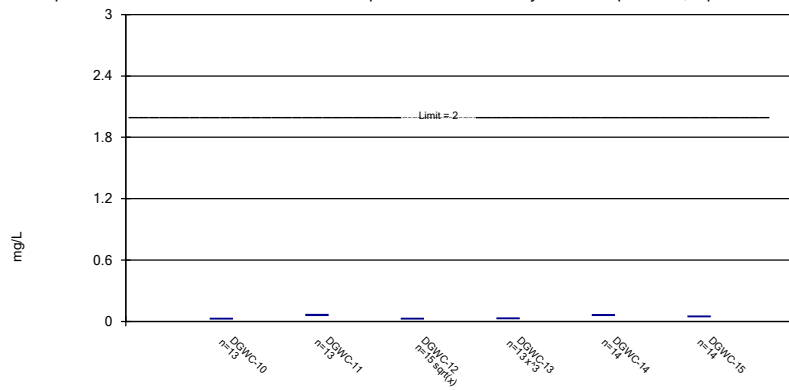
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

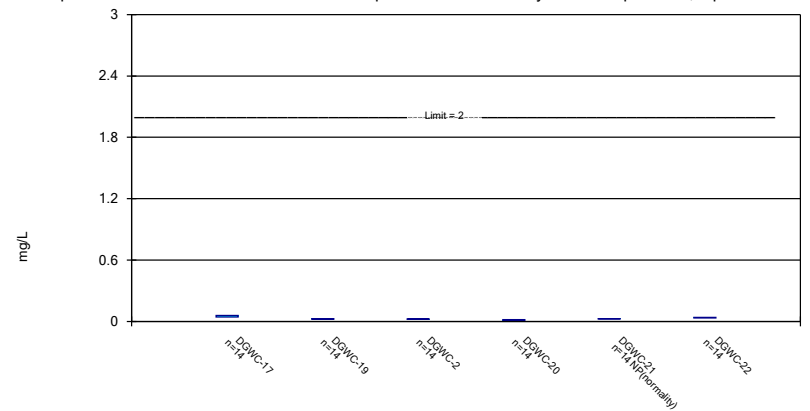
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Constituent: Barium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

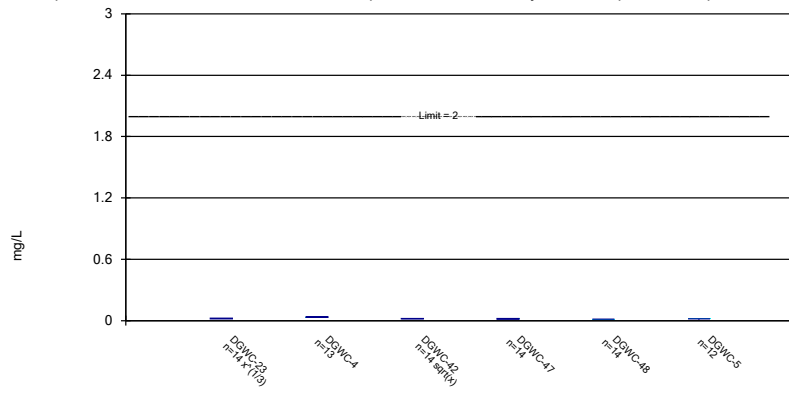
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

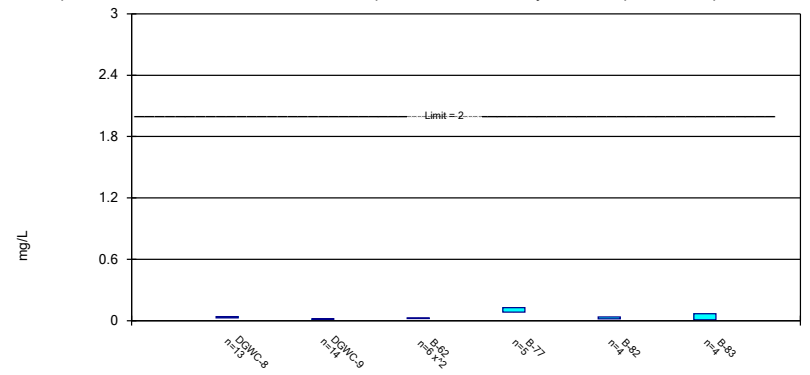
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

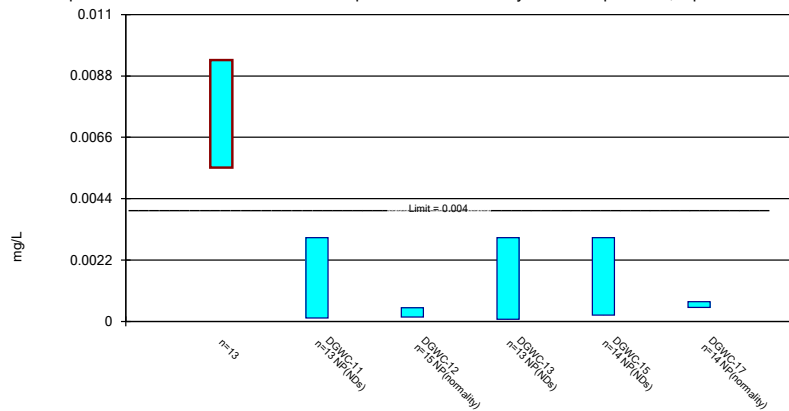
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

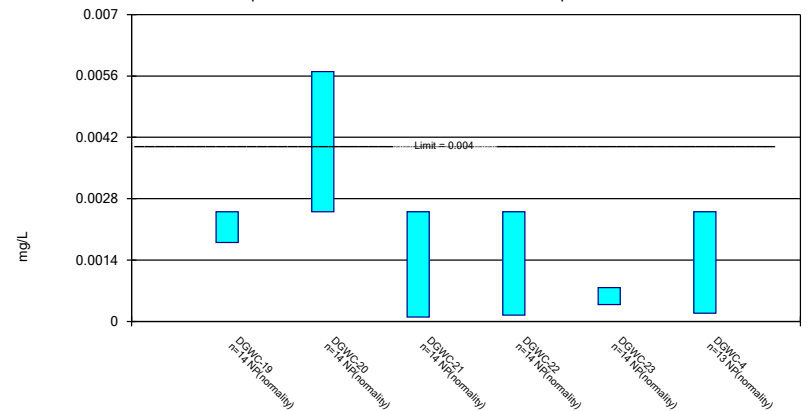
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

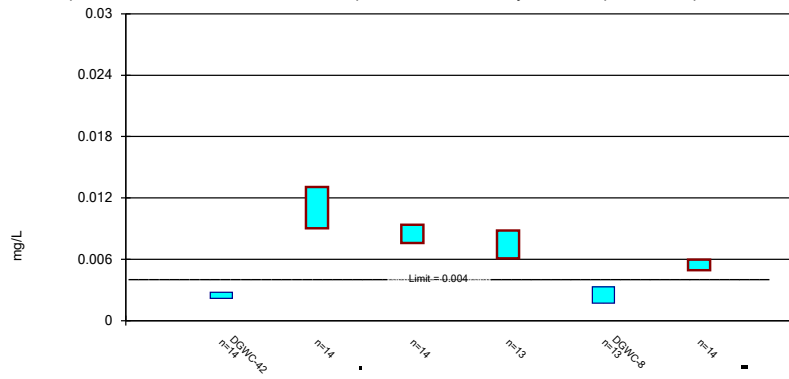
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

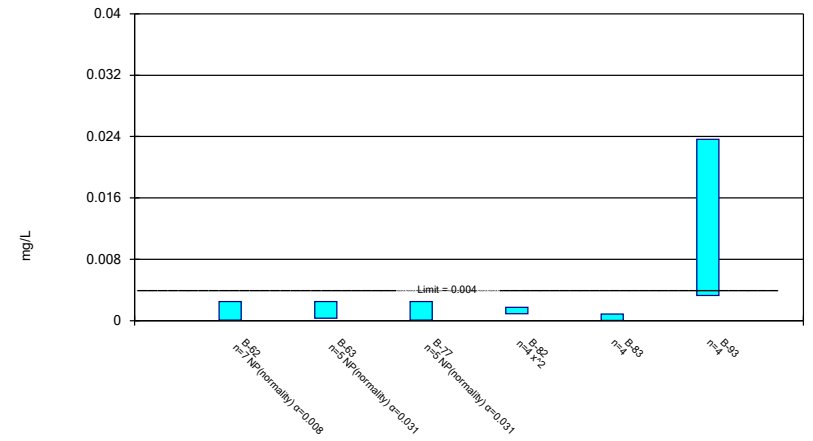
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

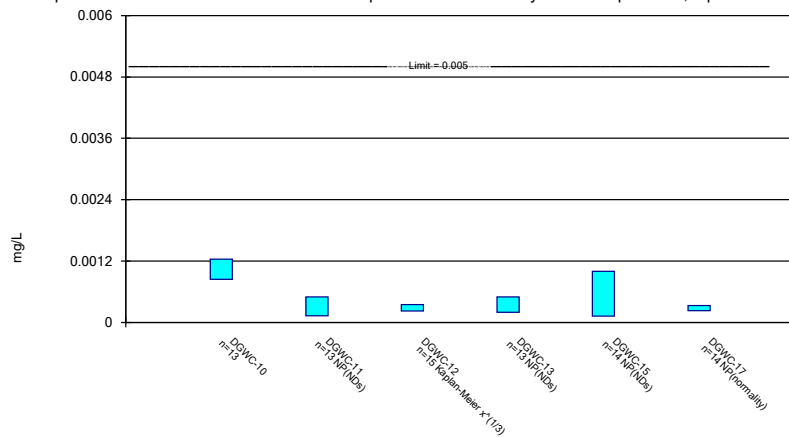
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

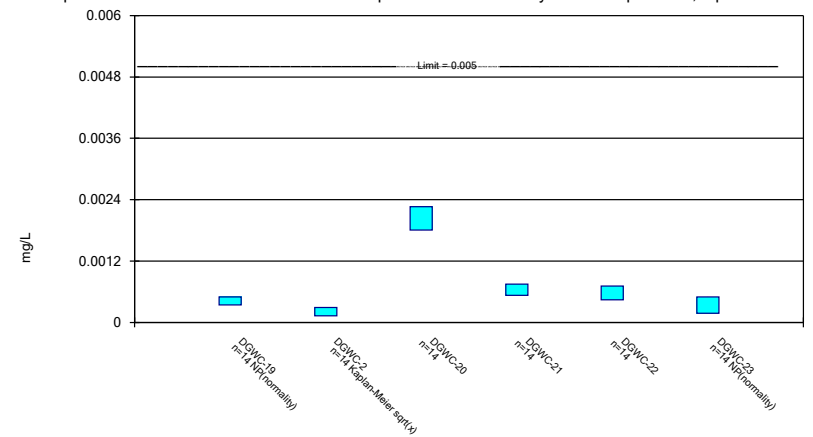
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

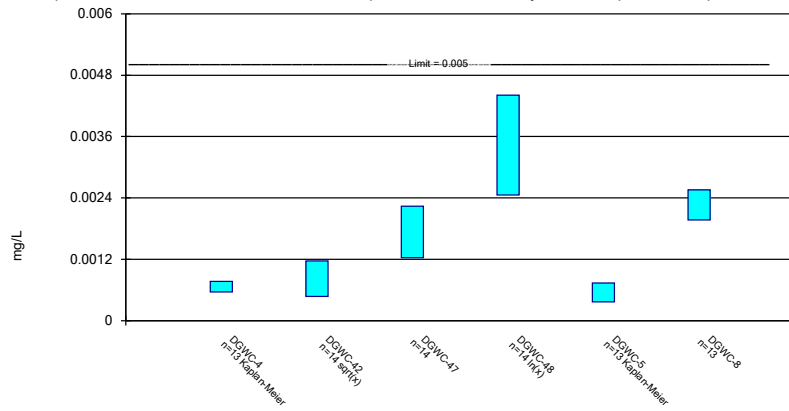
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

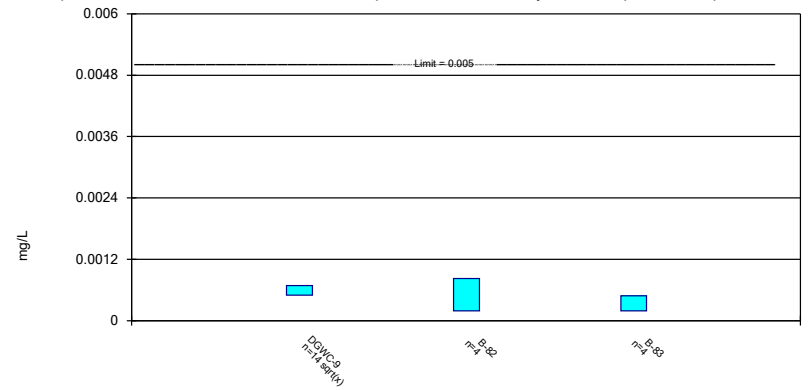
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

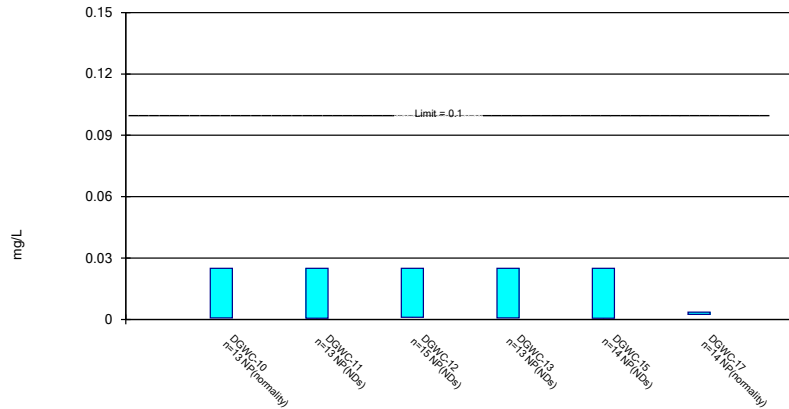
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Constituent: Cadmium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

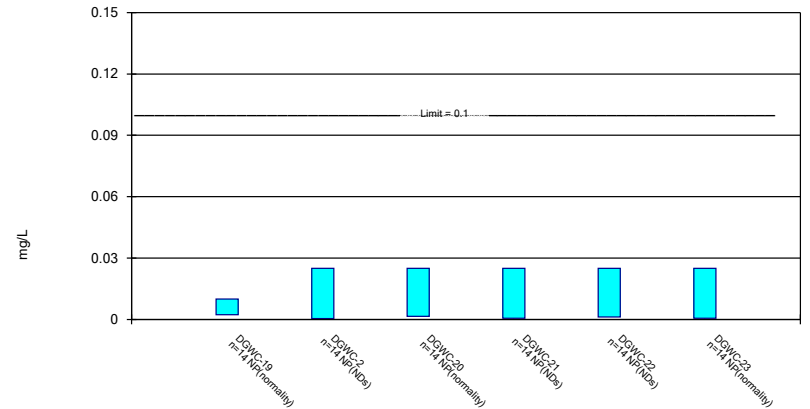
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

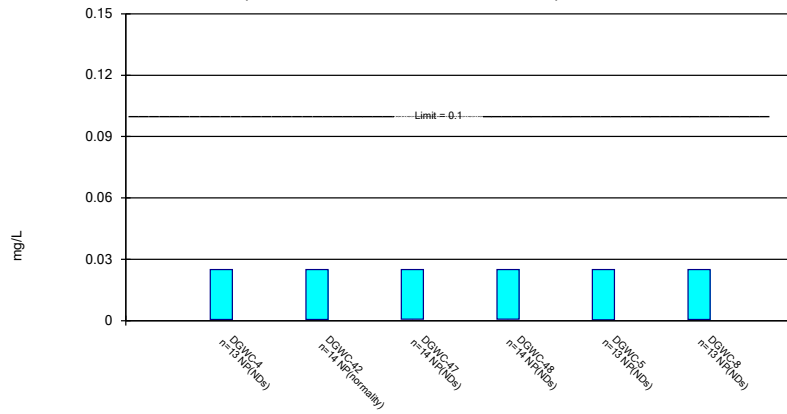
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

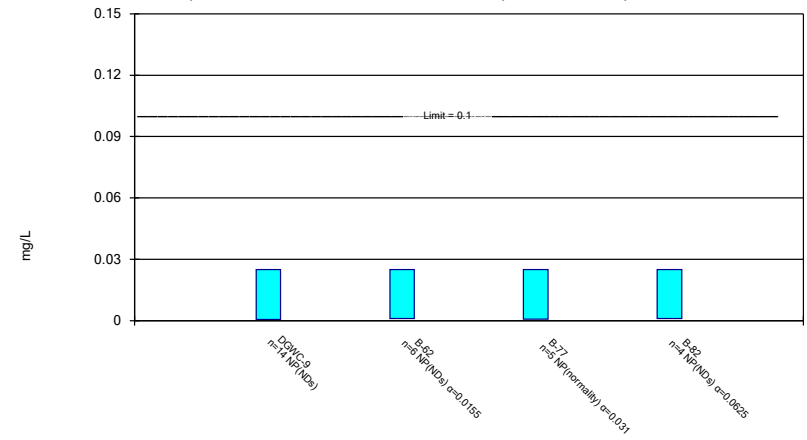
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

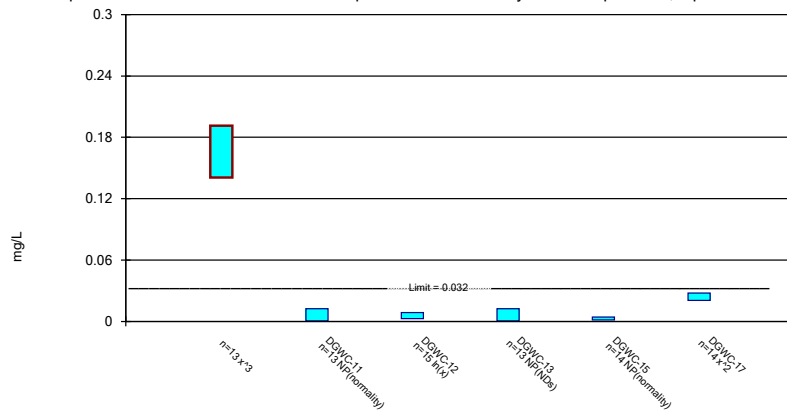
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

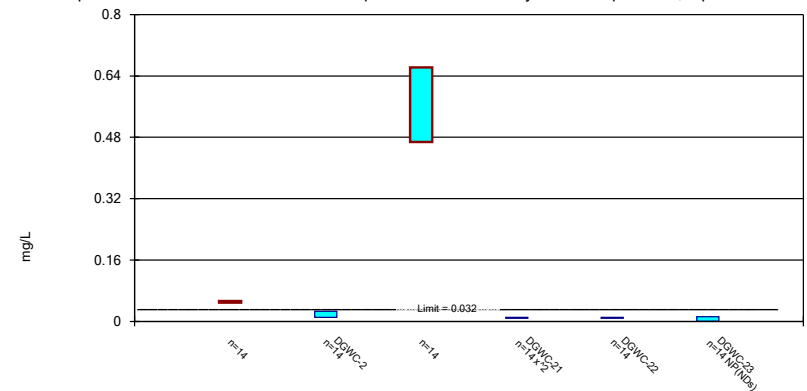
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

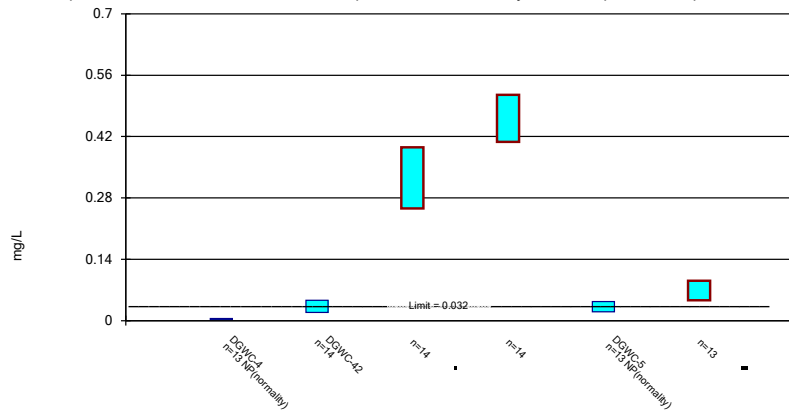
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/7/2021 11:46 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

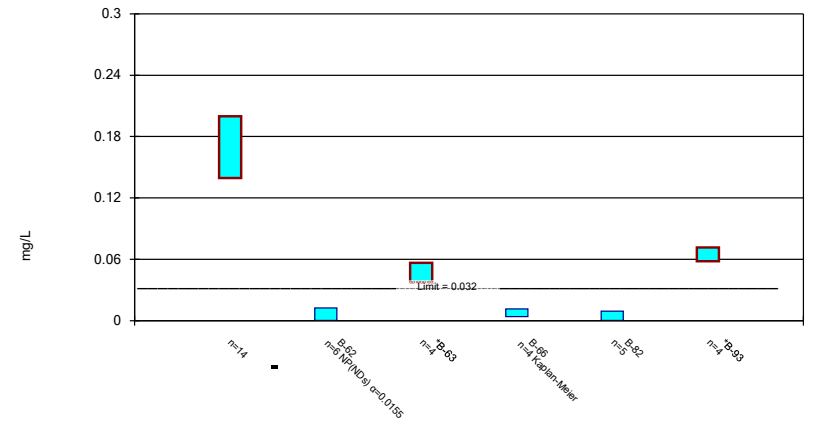
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Constituent: Cobalt Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

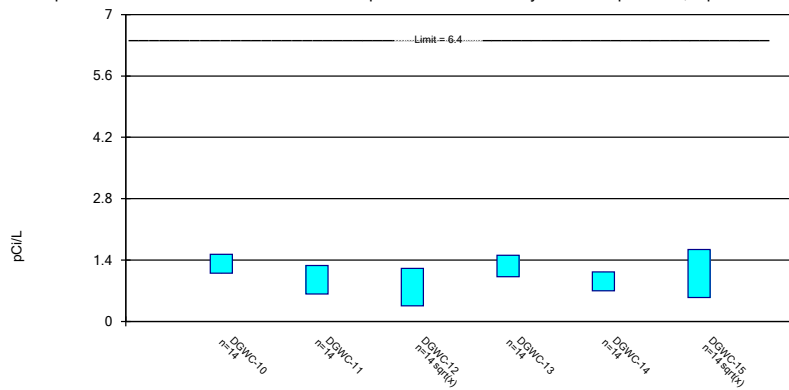
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

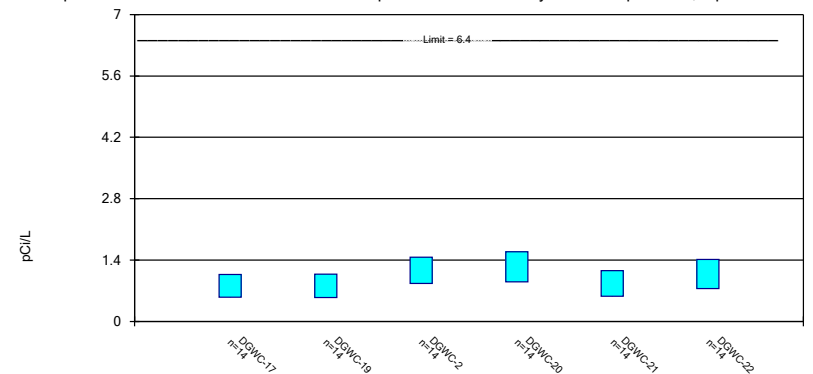
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Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

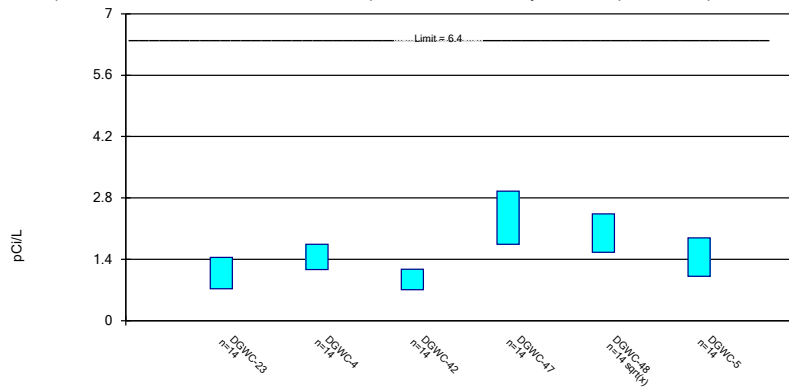
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Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

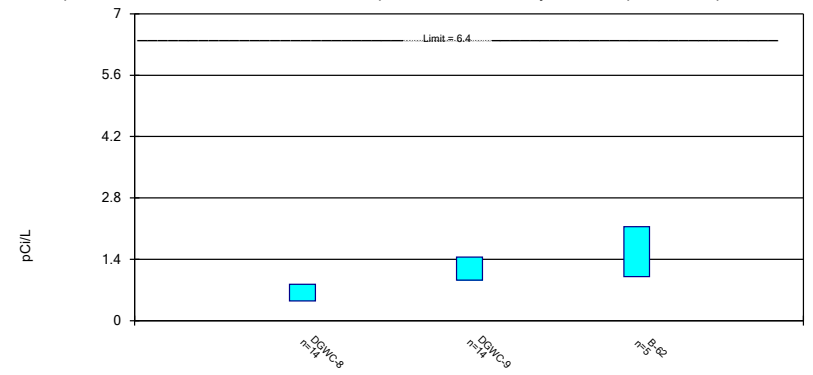
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Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

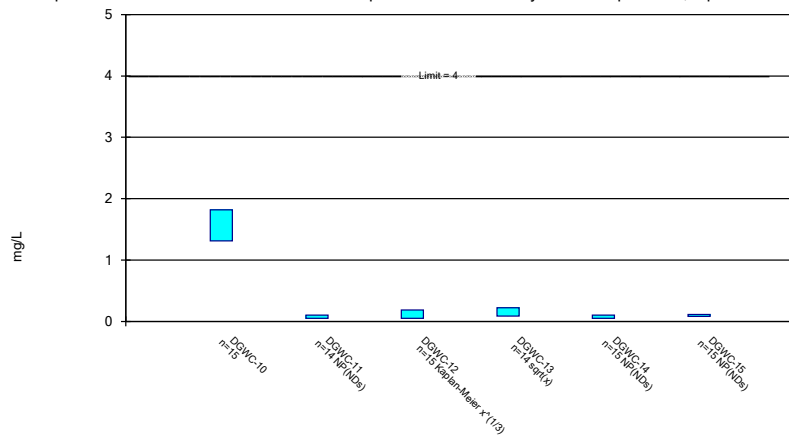
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

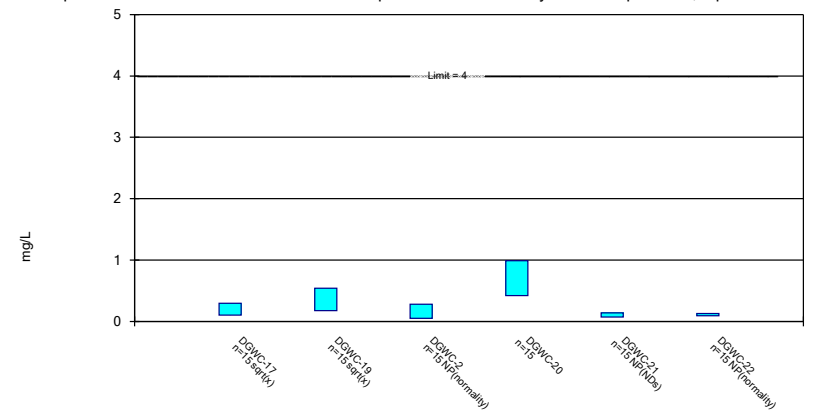
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

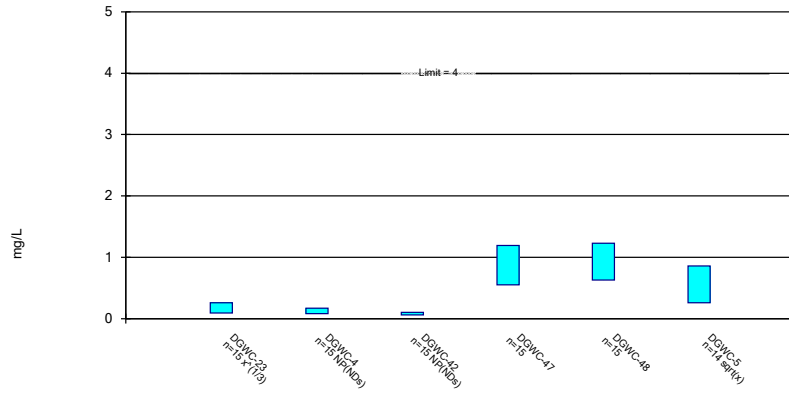
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Constituent: Fluoride, total Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

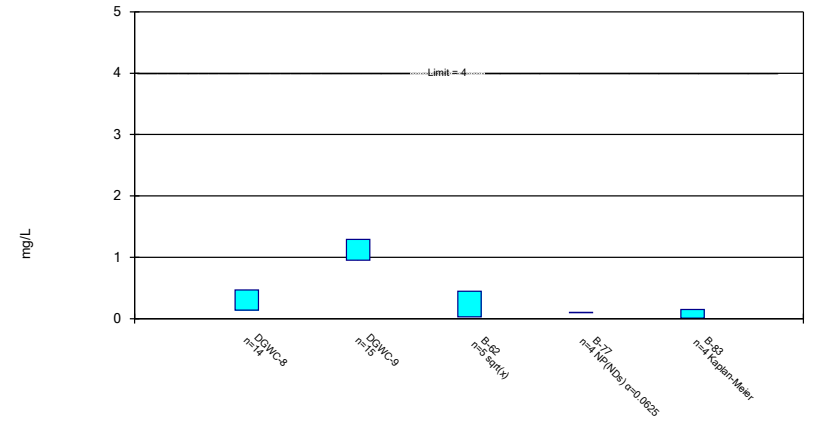
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

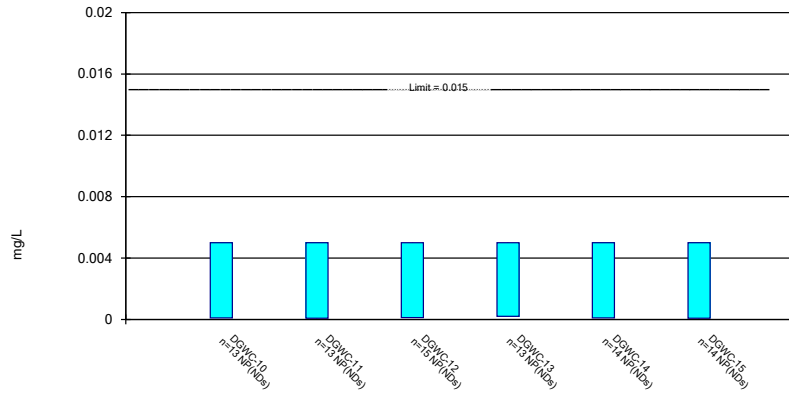
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

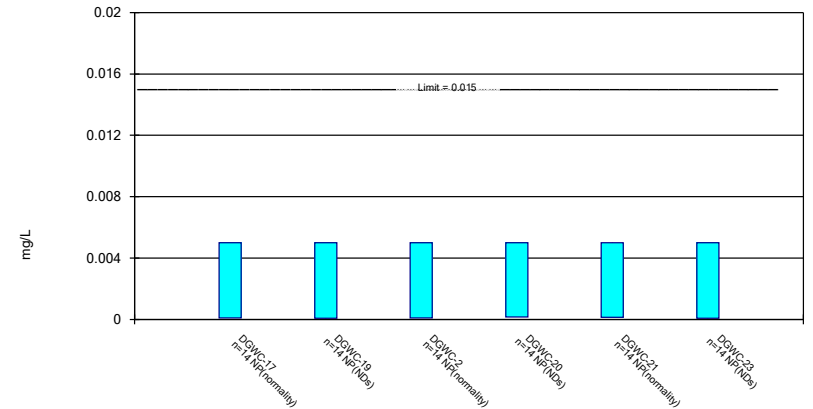
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

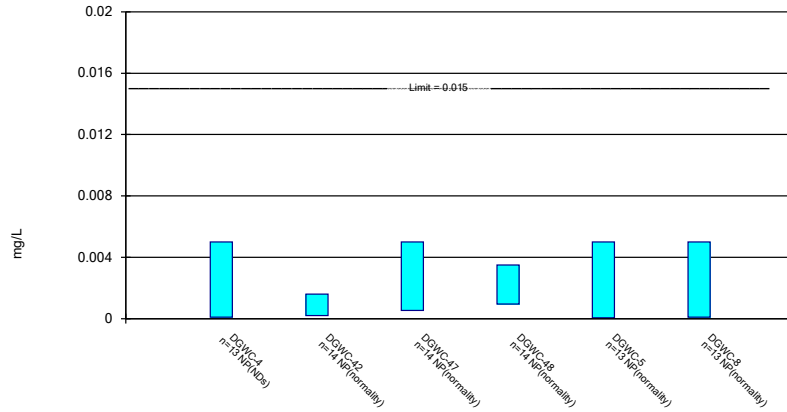
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

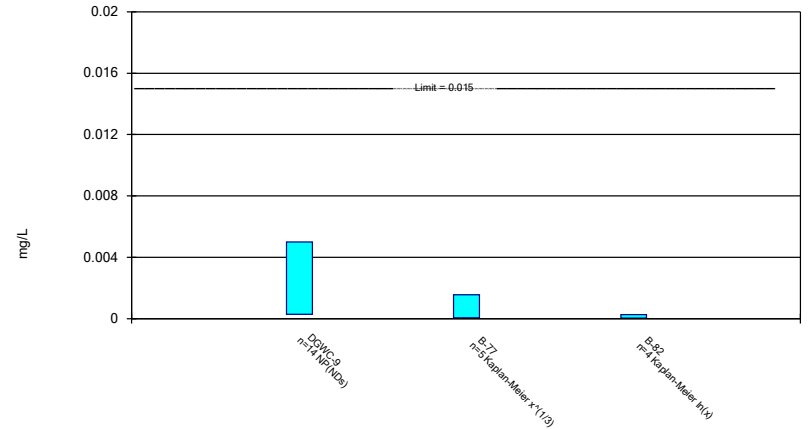
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

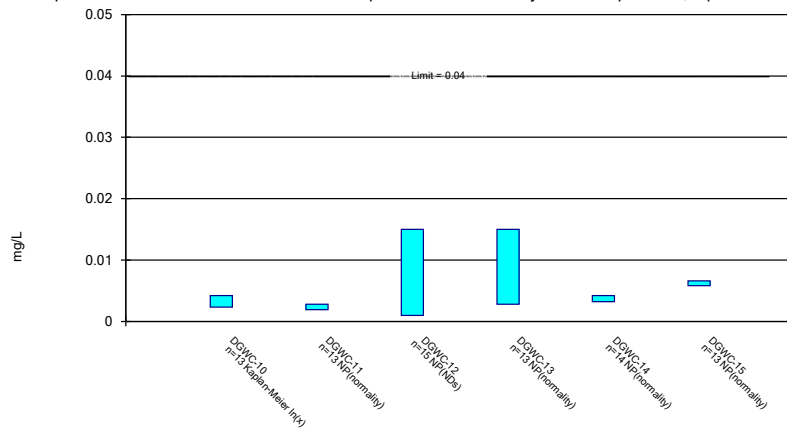
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

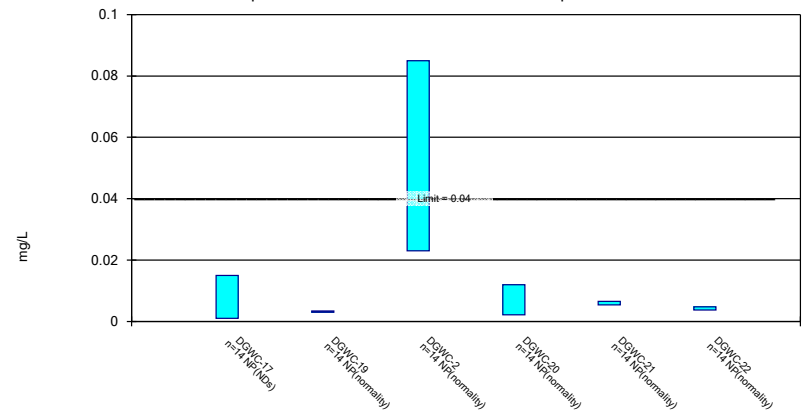
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Constituent: Lithium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

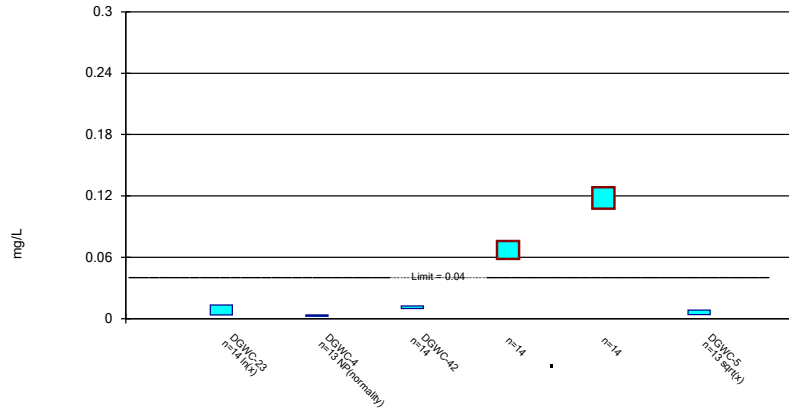
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

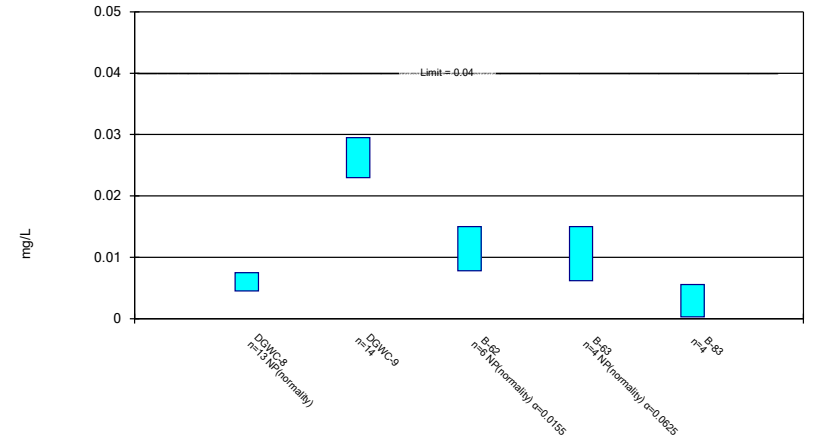
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

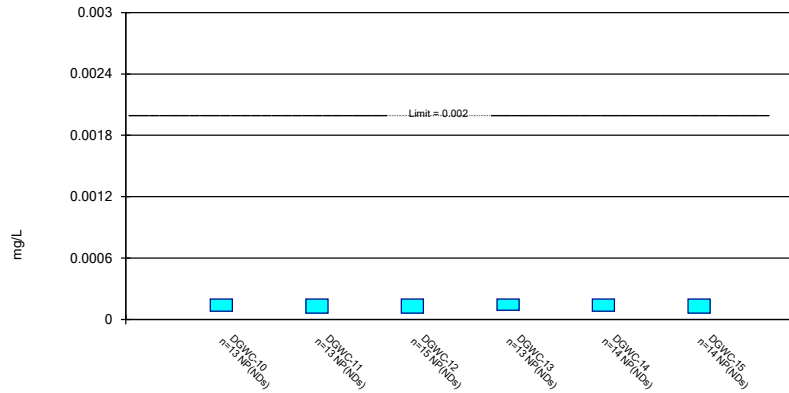
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

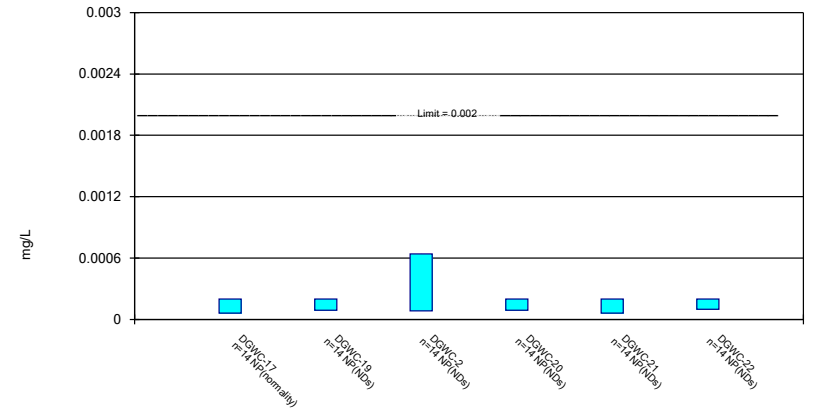
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

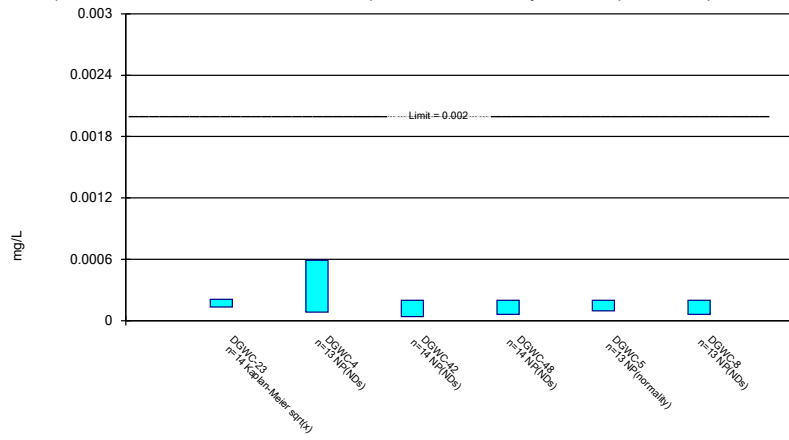
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

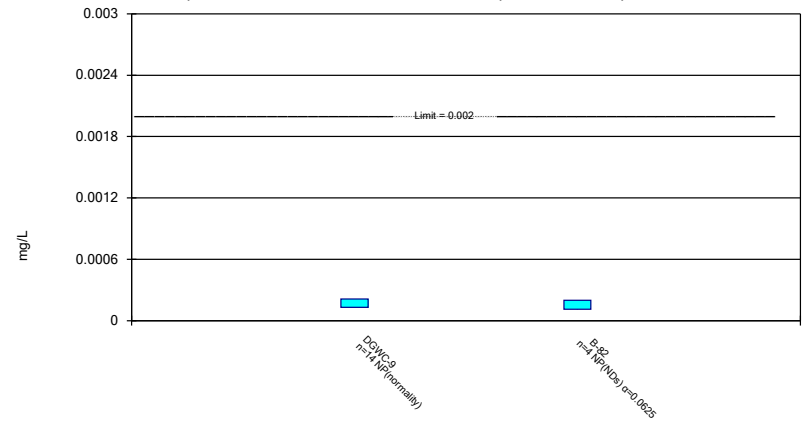
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

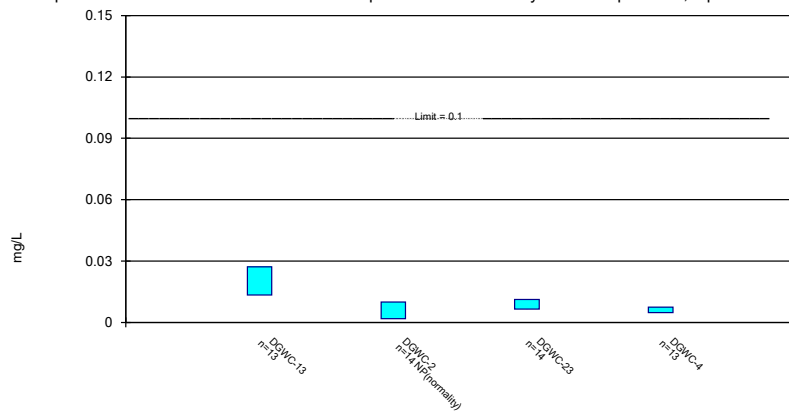
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

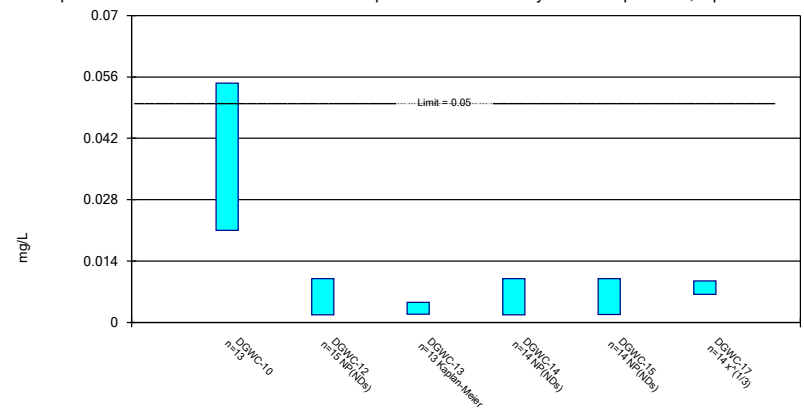
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

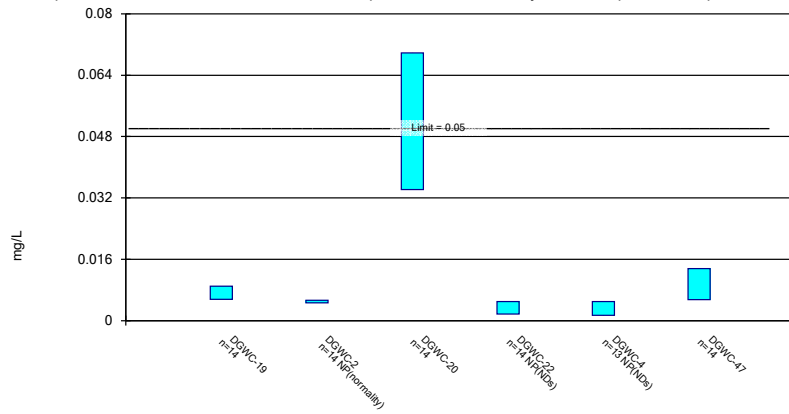
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

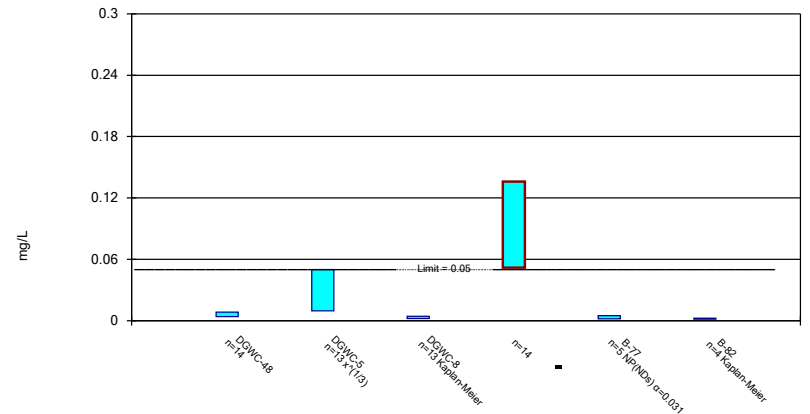
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

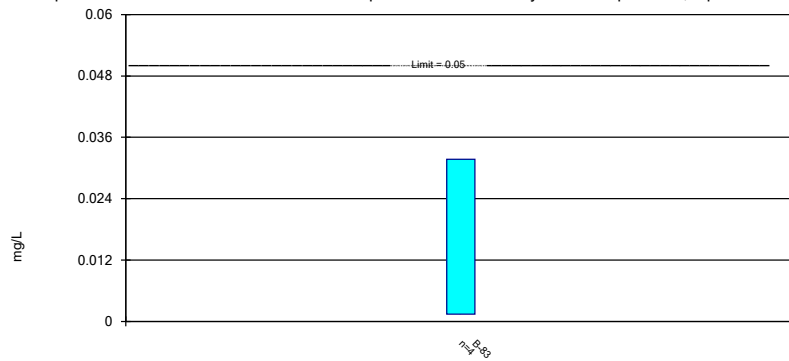
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

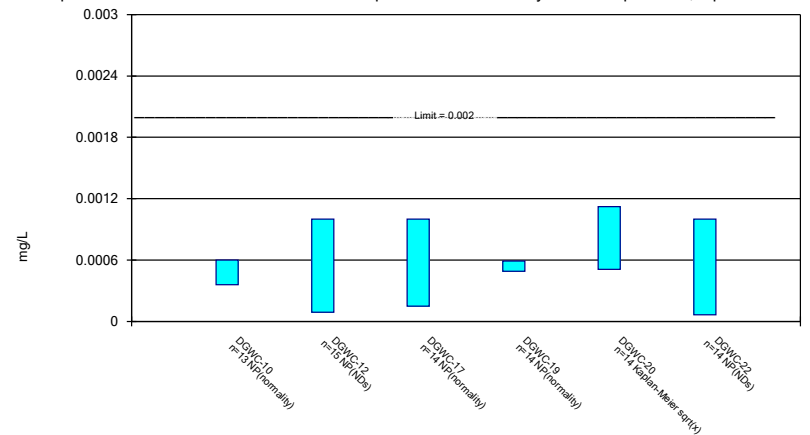
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

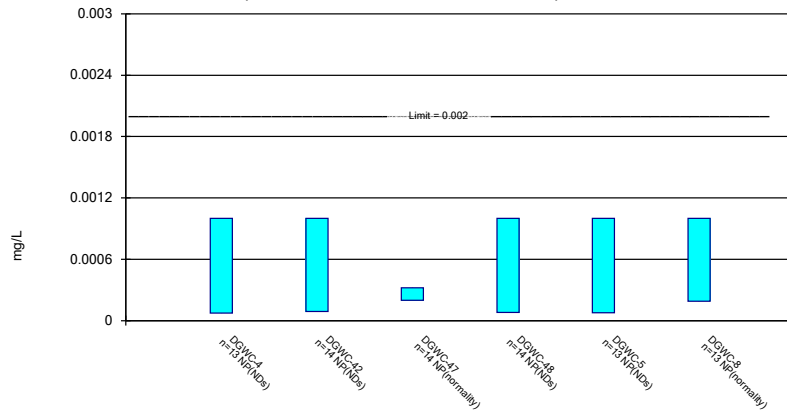
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

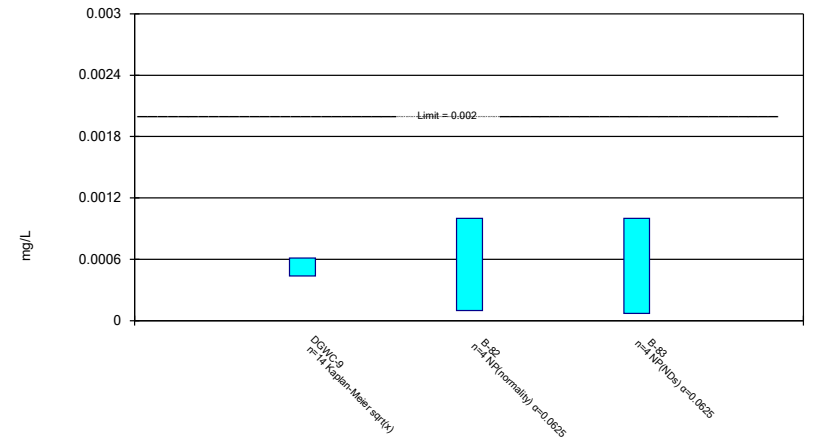
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

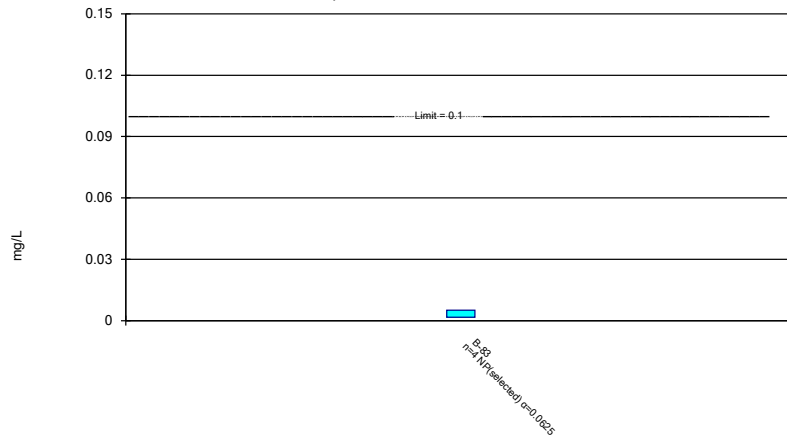
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 7/7/2021 11:47 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-parametric Confidence Intervals

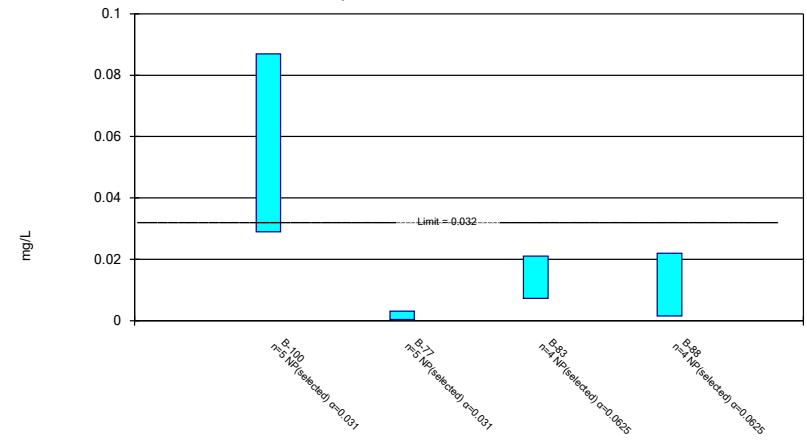
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Chromium Analysis Run 7/7/2021 11:53 AM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

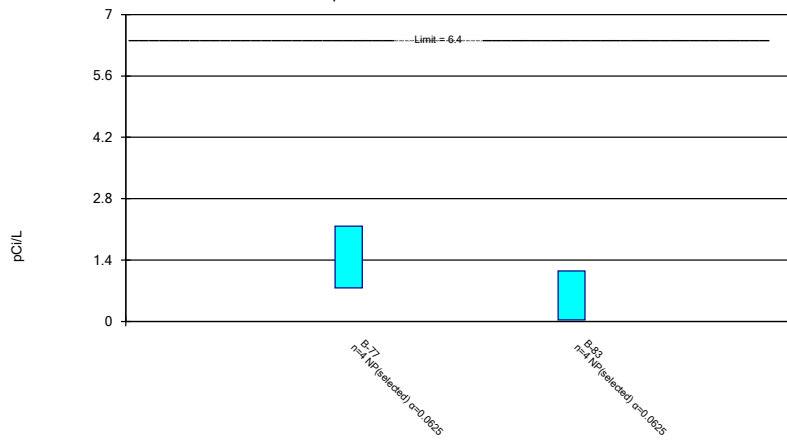
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Cobalt Analysis Run 7/7/2021 11:53 AM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

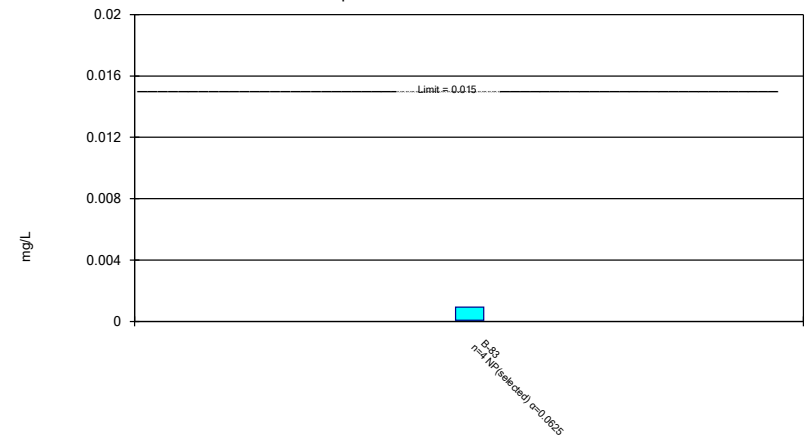
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2021 11:53 AM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval
Compliance Limit is not exceeded.

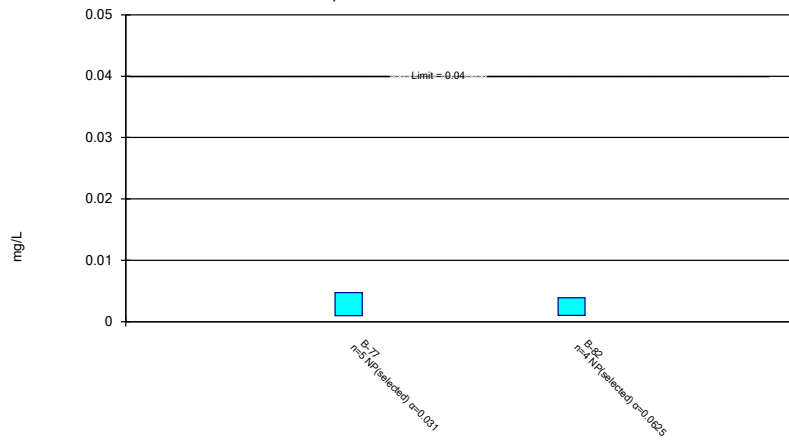


Normality testing disabled.

Constituent: Lead Analysis Run 7/7/2021 11:53 AM 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 7/7/2021 11:53 AM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE I.

State Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02965	0.01886	0.01	Yes	14	0.02451	0.00806	7.143	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009375	0.005518	0.004	Yes	13	0.007446	0.002593	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01307	0.009031	0.004	Yes	14	0.01105	0.00285	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009361	0.007596	0.004	Yes	14	0.008479	0.001246	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008799	0.006078	0.004	Yes	13	0.007438	0.00183	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005963	0.004937	0.004	Yes	14	0.00545	0.000724	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05663	0.03737	0.032	Yes	4	0.047	0.004243	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.07153	0.05797	0.032	Yes	4	0.06475	0.002986	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1913	0.1407	0.032	Yes	13	0.1597	0.04498	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05308	0.04895	0.032	Yes	14	0.05101	0.00292	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6624	0.4681	0.032	Yes	14	0.5652	0.1372	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3954	0.2561	0.032	Yes	14	0.3258	0.09832	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5152	0.4077	0.032	Yes	14	0.4614	0.07592	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.09119	0.04656	0.032	Yes	13	0.06888	0.03001	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.1998	0.1395	0.032	Yes	14	0.1697	0.04256	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07581	0.05851	0.03	Yes	14	0.06716	0.01221	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1285	0.1075	0.03	Yes	14	0.118	0.01479	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.136	0.05177	0.05	Yes	14	0.0939	0.05947	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-62	0.015	0.00046	0.006	No	6	0.01258	0.005936	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-77	0.015	0.00036	0.006	No	5	0.006284	0.007957	40	None	No	0.031	NP (normality)
Antimony (mg/L)	DGWC-12	0.015	0.0003	0.006	No	15	0.01402	0.003796	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.015	0.0011	0.006	No	14	0.01401	0.003715	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.015	0.00073	0.006	No	14	0.01293	0.005255	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.015	0.00045	0.006	No	14	0.01396	0.003889	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.015	0.00036	0.006	No	14	0.01395	0.003913	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.015	0.0006	0.006	No	14	0.01397	0.003849	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.015	0.0013	0.006	No	14	0.01402	0.003661	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.015	0.0007	0.006	No	14	0.01398	0.003822	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.015	0.00058	0.006	No	13	0.01168	0.006305	76.92	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.015	0.0012	0.006	No	14	0.01401	0.003688	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.015	0.00039	0.006	No	14	0.01396	0.003905	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.015	0.0015	0.006	No	13	0.01283	0.005297	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.015	0.00046	0.006	No	13	0.01388	0.004033	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-77	0.025	0.002	0.01	No	5	0.00688	0.01014	20	None	No	0.031	NP (normality)
Arsenic (mg/L)	DGWC-10	0.007102	0.003329	0.01	No	13	0.005215	0.002537	7.692	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.025	0.00063	0.01	No	15	0.02175	0.00858	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.025	0.00039	0.01	No	14	0.02324	0.006577	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.025	0.0013	0.01	No	14	0.01982	0.01029	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.025	0.0008	0.01	No	14	0.01471	0.01233	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001904	0.0008429	0.01	No	14	0.005146	0.008486	21.43	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.025	0.0025	0.01	No	14	0.02168	0.00845	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01726	0.00744	0.01	No	14	0.01235	0.006931	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.025	0.001	0.01	No	14	0.02329	0.006414	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.025	0.0008	0.01	No	13	0.01937	0.0107	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.025	0.0011	0.01	No	14	0.02156	0.008752	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.005	0.0012	0.01	No	14	0.005557	0.008322	21.43	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-48	0.025	0.0008	0.01	No	14	0.01308	0.01238	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-5	0.01377	0.002745	0.01	No	13	0.01193	0.01166	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.025	0.001	0.01	No	13	0.0159	0.01199	61.54	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-9	0.02965	0.01886	0.01	Yes	14	0.02451	0.00806	7.143	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-62	0.02823	0.01974	2	No	6	0.02417	0.003312	0	None	x^2	0.01	Param.
Barium (mg/L)	B-77	0.1267	0.08366	2	No	5	0.1052	0.01285	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03627	0.01773	2	No	4	0.027	0.004082	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.06641	0.008094	2	No	4	0.03725	0.01284	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.0301	0.0237	2	No	13	0.0269	0.004297	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06723	0.05668	2	No	13	0.06195	0.007093	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03098	0.02368	2	No	15	0.02745	0.005573	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03326	0.02738	2	No	13	0.02924	0.007645	7.692	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06288	0.05777	2	No	14	0.06033	0.003607	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.0512	0.04475	2	No	14	0.04798	0.004554	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05737	0.04323	2	No	14	0.0503	0.009982	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02545	0.02154	2	No	14	0.02349	0.002758	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02274	0.02126	2	No	14	0.022	0.001038	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01577	0.009132	2	No	14	0.01245	0.004684	7.143	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	14	0.02617	0.00131	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03811	0.03268	2	No	14	0.03539	0.003832	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02383	0.01824	2	No	14	0.02114	0.004247	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03647	0.03224	2	No	13	0.03435	0.002842	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.02068	0.01657	2	No	14	0.01867	0.003023	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01959	0.01568	2	No	14	0.01764	0.002756	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01446	0.01299	2	No	14	0.01372	0.001036	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01845	0.01679	2	No	12	0.01762	0.001059	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03886	0.02791	2	No	13	0.03338	0.007359	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	DGWC-9	0.01633	0.01495	2	No	14	0.01564	0.0009741	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0025	0.000078	0.004	No	7	0.0007897	0.001168	28.57	None	No	0.008	NP (normality)
Beryllium (mg/L)	B-63	0.0025	0.0003	0.004	No	5	0.000808	0.0009485	20	None	No	0.031	NP (normality)
Beryllium (mg/L)	B-77	0.0025	0.000053	0.004	No	5	0.000572	0.001078	20	None	No	0.031	NP (normality)
Beryllium (mg/L)	B-82	0.001741	0.0008959	0.004	No	4	0.001375	0.0001893	0	None	x^2	0.01	Param.
Beryllium (mg/L)	B-83	0.0008505	0.00001946	0.004	No	4	0.000435	0.000183	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.02365	0.003296	0.004	No	4	0.01348	0.004484	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009375	0.005518	0.004	Yes	13	0.007446	0.002593	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-11	0.003	0.00012	0.004	No	13	0.001448	0.00127	53.85	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-12	0.00049	0.00016	0.004	No	15	0.0005483	0.0009035	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	13	0.001791	0.001201	69.23	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	14	0.002198	0.0008831	85.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00071	0.0005	0.004	No	14	0.0008621	0.0006966	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.0025	0.0018	0.004	No	14	0.002029	0.0003451	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.0057	0.0025	0.004	No	14	0.003907	0.001923	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-21	0.0025	0.0001	0.004	No	14	0.0005307	0.000946	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0025	0.00014	0.004	No	14	0.0005357	0.0009437	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.00077	0.00038	0.004	No	14	0.0007693	0.0008509	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.0025	0.00019	0.004	No	13	0.0005931	0.000964	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002779	0.002164	0.004	No	14	0.002471	0.000434	7.143	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01307	0.009031	0.004	Yes	14	0.01105	0.00285	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009361	0.007596	0.004	Yes	14	0.008479	0.001246	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008799	0.006078	0.004	Yes	13	0.007438	0.00183	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-8	0.003316	0.001715	0.004	No	13	0.002515	0.001077	7.692	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005963	0.004937	0.004	Yes	14	0.00545	0.000724	0	None	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0008228	0.0001922	0.005	No	4	0.0005075	0.0001389	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004871	0.0001929	0.005	No	4	0.00034	0.00006481	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001237	0.0008415	0.005	No	13	0.001039	0.000266	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00013	0.005	No	13	0.0004162	0.0001596	76.92	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003448	0.0002215	0.005	No	15	0.0003873	0.0001963	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	13	0.0004446	0.0001374	84.62	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	14	0.0004236	0.0002458	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	14	0.0003036	0.00009195	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No	14	0.0004243	0.0001722	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002887	0.0001286	0.005	No	14	0.0003571	0.0002393	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002266	0.001806	0.005	No	14	0.002036	0.0003249	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007507	0.0005278	0.005	No	14	0.0006393	0.0001574	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007098	0.0004416	0.005	No	14	0.0005757	0.0001893	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0005	0.00018	0.005	No	14	0.0003043	0.0002174	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0007665	0.0005618	0.005	No	13	0.0007054	0.0001506	15.38	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001165	0.0004751	0.005	No	14	0.0008521	0.0005665	14.29	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002239	0.001233	0.005	No	14	0.001736	0.0007099	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.004409	0.002455	0.005	No	14	0.003579	0.001733	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.0007387	0.0003671	0.005	No	13	0.0006046	0.0002635	15.38	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002555	0.001968	0.005	No	13	0.002262	0.0003948	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006877	0.0005003	0.005	No	14	0.0005971	0.0001413	14.29	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-62	0.025	0.00098	0.1	No	6	0.021	0.009806	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-77	0.025	0.00068	0.1	No	5	0.005892	0.0107	20	None	No	0.031	NP (normality)
Chromium (mg/L)	B-82	0.025	0.0011	0.1	No	4	0.01903	0.01195	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No	4	0.004175	0.001652	0	None	No	0.0625	NP (selected)
Chromium (mg/L)	DGWC-10	0.025	0.0007	0.1	No	13	0.008269	0.01161	30.77	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.025	0.0006	0.1	No	13	0.01749	0.01172	69.23	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.025	0.00099	0.1	No	15	0.0218	0.008457	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.025	0.00066	0.1	No	13	0.01753	0.01166	69.23	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.025	0.00058	0.1	No	14	0.01724	0.01105	71.43	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No	14	0.005929	0.008088	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.01	0.0023	0.1	No	14	0.006307	0.008166	21.43	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.025	0.00046	0.1	No	14	0.01451	0.01257	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.025	0.0015	0.1	No	14	0.009071	0.01068	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.025	0.0005	0.1	No	14	0.01464	0.01242	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.025	0.0012	0.1	No	14	0.0233	0.006361	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.025	0.0005	0.1	No	14	0.007701	0.01136	28.57	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.025	0.0005	0.1	No	13	0.02312	0.006795	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.025	0.0005	0.1	No	14	0.01295	0.01252	50	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-47	0.025	0.0007	0.1	No	14	0.02326	0.006494	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.025	0.0007	0.1	No	14	0.02151	0.008879	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.025	0.00045	0.1	No	13	0.02311	0.006809	92.31	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.025	0.00061	0.1	No	13	0.01404	0.01234	53.85	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.025	0.00059	0.1	No	14	0.01492	0.01215	57.14	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	5	0.0626	0.02871	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-62	0.0125	0.0003	0.032	No	6	0.008435	0.006297	66.67	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	B-63	0.05663	0.03737	0.032	Yes	4	0.047	0.004243	0	None	No	0.01	Param.
Cobalt (mg/L)	B-66	0.01156	0.004037	0.032	No	4	0.008975	0.002876	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	5	0.00168	0.001021	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-82	0.0091	0.00005969	0.032	No	5	0.00458	0.002698	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	4	0.01405	0.006498	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	4	0.01115	0.01037	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-93	0.07153	0.05797	0.032	Yes	4	0.06475	0.002986	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1913	0.1407	0.032	Yes	13	0.1597	0.04498	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-11	0.0125	0.0006	0.032	No	13	0.006148	0.006122	46.15	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.008715	0.002819	0.032	No	15	0.007067	0.007151	13.33	None	ln(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.0125	0.0004	0.032	No	13	0.009714	0.005295	76.92	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0042	0.0015	0.032	No	14	0.004514	0.006548	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02759	0.02038	0.032	No	14	0.02342	0.006545	7.143	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05308	0.04895	0.032	Yes	14	0.05101	0.00292	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-2	0.0266	0.01044	0.032	No	14	0.01852	0.0114	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6624	0.4681	0.032	Yes	14	0.5652	0.1372	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-21	0.01042	0.00825	0.032	No	14	0.009264	0.001642	14.29	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.01056	0.008065	0.032	No	14	0.009314	0.001763	14.29	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0125	0.00039	0.032	No	14	0.00764	0.00594	64.29	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.005	0.0015	0.032	No	13	0.0028	0.003059	15.38	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04655	0.01846	0.032	No	14	0.03251	0.01983	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3954	0.2561	0.032	Yes	14	0.3258	0.09832	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5152	0.4077	0.032	Yes	14	0.4614	0.07592	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-5	0.0432	0.02	0.032	No	13	0.0284	0.01141	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.09119	0.04656	0.032	Yes	13	0.06888	0.03001	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.1998	0.1395	0.032	Yes	14	0.1697	0.04256	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.146	1.006	6.4	No	5	1.576	0.3399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.761	6.4	No	4	1.74	0.6675	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	6.4	No	4	0.732	0.4866	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.529	1.097	6.4	No	14	1.313	0.3047	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.278	0.628	6.4	No	14	0.9529	0.4588	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.208	0.3559	6.4	No	14	0.8355	0.6964	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.505	1.02	6.4	No	14	1.262	0.3426	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.132	0.6987	6.4	No	14	0.9154	0.3058	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.636	0.5457	6.4	No	14	1.153	0.8967	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.068	0.5494	6.4	No	14	0.8085	0.3658	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.08	0.5429	6.4	No	14	0.8115	0.3792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.463	0.8655	6.4	No	14	1.164	0.4217	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.592	0.9015	6.4	No	14	1.247	0.4874	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.157	0.5765	6.4	No	14	0.8667	0.4098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.411	0.7487	6.4	No	14	1.08	0.4673	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.446	0.7232	6.4	No	14	1.085	0.51	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.743	1.164	6.4	No	14	1.454	0.4088	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.17	0.7016	6.4	No	14	0.9356	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.952	1.739	6.4	No	14	2.346	0.856	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.433	1.56	6.4	No	14	2.017	0.6658	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.89	1.013	6.4	No	14	1.452	0.619	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.831	0.4529	6.4	No	14	0.6419	0.2669	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.453	0.9271	6.4	No	14	1.19	0.3711	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.4478	0.02966	4	No	5	0.1946	0.1426	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.096	4	No	4	0.099	0.002	75	None	No	0.0625	NP (NDs)
Fluoride, total (mg/L)	B-83	0.1493	0.006499	4	No	4	0.08775	0.03484	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.819	1.311	4	No	15	1.565	0.3749	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	14	0.079	0.0265	57.14	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1853	0.05213	4	No	15	0.1627	0.149	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2244	0.08651	4	No	14	0.1623	0.1114	7.143	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No	15	0.08493	0.02708	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	15	0.1057	0.04512	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.297	0.1042	4	No	15	0.2133	0.1559	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.541	0.1751	4	No	15	0.384	0.3196	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No	15	0.1489	0.1623	40	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9883	0.4184	4	No	15	0.7033	0.4205	6.667	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No	15	0.1075	0.06895	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No	15	0.1197	0.06742	46.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.258	0.0936	4	No	15	0.1919	0.1589	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	15	0.1388	0.1835	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	15	0.092	0.02242	86.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.191	0.5527	4	No	15	0.872	0.4711	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.231	0.6281	4	No	15	0.9293	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.86	0.2558	4	No	14	0.5957	0.4593	7.143	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4684	0.1363	4	No	14	0.3024	0.2344	14.29	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.293	0.9536	4	No	15	1.123	0.2505	0	None	No	0.01	Param.
Lead (mg/L)	B-77	0.001564	0.00006121	0.001	No	5	0.001484	0.002048	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-82	0.0002577	0.00003979	0.001	No	4	0.001332	0.002446	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-83	0.00092	0.000065	0.001	No	4	0.0003188	0.0004031	0	None	No	0.0625	NP (selected)
Lead (mg/L)	DGWC-10	0.005	0.000092	0.001	No	13	0.002752	0.002527	53.85	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.005	0.000076	0.001	No	13	0.003115	0.002481	61.54	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.005	0.00011	0.001	No	15	0.004347	0.001722	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.005	0.0002	0.001	No	13	0.004254	0.001822	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.005	0.000096	0.001	No	14	0.003944	0.002097	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.005	0.000082	0.001	No	14	0.002981	0.002435	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.005	0.00009	0.001	No	14	0.002557	0.002536	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-19	0.005	0.00007	0.001	No	14	0.003256	0.002428	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.005	0.000086	0.001	No	14	0.002195	0.002521	42.86	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.005	0.00015	0.001	No	14	0.002998	0.002404	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.005	0.00014	0.001	No	14	0.00259	0.002502	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-23	0.005	0.000066	0.001	No	14	0.004648	0.001319	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.005	0.0001	0.001	No	13	0.003498	0.002346	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0016	0.0002	0.001	No	14	0.001087	0.001699	14.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-47	0.005	0.00053	0.001	No	14	0.001658	0.001822	21.43	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0035	0.00095	0.001	No	14	0.001998	0.001463	14.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.005	0.000051	0.001	No	13	0.001798	0.002308	30.77	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.005	0.0001	0.001	No	13	0.002445	0.002467	46.15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.005	0.00028	0.001	No	14	0.003971	0.002044	78.57	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-62	0.015	0.0078	0.03	No 6	0.0094	0.002773	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.03	No 4	0.00855	0.004303	25	None	No	0.0625	NP (normality)
Lithium (mg/L)	B-77	0.0047	0.00095	0.03	No 5	0.00243	0.001649	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.03	No 4	0.002525	0.001441	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-83	0.005556	0.0002944	0.03	No 4	0.002925	0.001159	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-10	0.004225	0.002329	0.03	No 13	0.005362	0.004453	15.38	Kaplan-Meier	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.03	No 13	0.003208	0.003556	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.00097	0.03	No 15	0.01035	0.006814	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.015	0.0028	0.03	No 13	0.004977	0.004456	15.38	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0042	0.0032	0.03	No 14	0.004743	0.003193	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.03	No 13	0.006292	0.0008655	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.03	No 14	0.009036	0.007147	57.14	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.003	0.03	No 14	0.004029	0.003166	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.03	No 14	0.05085	0.03062	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.03	No 14	0.0067	0.005703	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0054	0.03	No 14	0.0066	0.002444	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0047	0.0037	0.03	No 14	0.004907	0.00293	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01331	0.00359	0.03	No 14	0.01191	0.01899	7.143	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0024	0.03	No 13	0.003808	0.003388	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01232	0.009904	0.03	No 14	0.01111	0.001708	7.143	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07581	0.05851	0.03	Yes 14	0.06716	0.01221	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1285	0.1075	0.03	Yes 14	0.118	0.01479	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-5	0.00831	0.003998	0.03	No 13	0.006285	0.003179	7.692	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0075	0.0045	0.03	No 13	0.006238	0.002831	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02951	0.02298	0.03	No 14	0.02624	0.004608	7.143	None	No	0.01	Param.
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No 4	0.0001775	0.000045	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	DGWC-10	0.0002	0.00008	0.002	No 13	0.0001632	0.00005767	69.23	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00006	0.002	No 13	0.0001685	0.00006026	76.92	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00006	0.002	No 15	0.0001511	0.00006562	60	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No 13	0.0001815	0.00004525	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No 14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No 14	0.00019	0.00003742	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No 14	0.0001443	0.00006413	50	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No 14	0.00017	0.00006051	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No 14	0.0002052	0.0001354	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No 14	0.000175	0.00004973	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No 14	0.000155	0.00006454	64.29	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No 14	0.0001718	0.0000571	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002069	0.0001323	0.002	No 14	0.0001907	0.0000554	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.000082	0.002	No 13	0.0002117	0.000122	76.92	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No 14	0.0001886	0.00004276	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No 14	0.00019	0.00003742	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002	0.000094	0.002	No 13	0.0001842	0.000118	15.38	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-8	0.0002	0.00006	0.002	No 13	0.0001455	0.00006393	53.85	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No 14	0.0001916	0.0000896	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02721	0.01333	0.041	No 13	0.02027	0.009331	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.041	No 14	0.005293	0.004249	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01127	0.006572	0.041	No 14	0.008921	0.003316	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007424	0.004715	0.041	No 13	0.006069	0.001821	7.692	None	No	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No 5	0.00434	0.001476	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-82	0.002418	0.001282	0.05	No 4	0.003425	0.00183	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-83	0.0317	0.001397	0.05	No 4	0.01655	0.006674	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-10	0.05457	0.02102	0.05	No 13	0.03779	0.02256	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.01	0.0017	0.05	No 15	0.00386	0.002327	53.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004566	0.001865	0.05	No 13	0.004177	0.002488	23.08	Kaplan-Meier	No	0.01	Param.

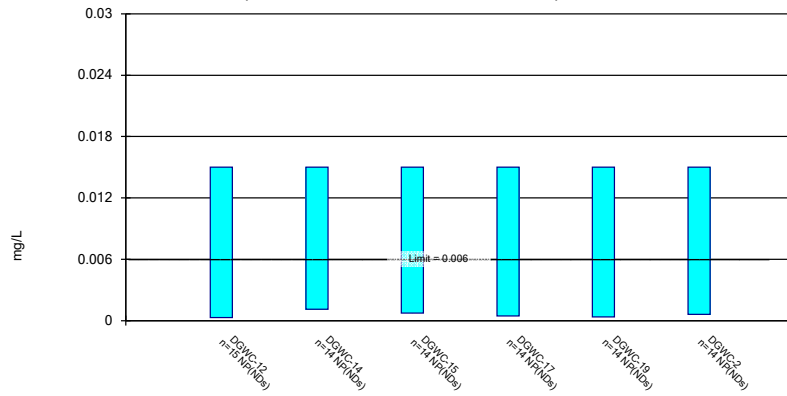
State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 7/7/2021, 11:43 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	14	0.004407	0.002227	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	14	0.005129	0.001641	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009481	0.006361	0.05	No	14	0.008014	0.002436	14.29	None	x ^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.009002	0.005583	0.05	No	14	0.007293	0.002414	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0046	0.05	No	14	0.005343	0.0015	50	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06981	0.03422	0.05	No	14	0.05201	0.02512	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	14	0.004764	0.000882	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	13	0.004723	0.0009985	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01358	0.005492	0.05	No	14	0.009536	0.005709	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008378	0.003779	0.05	No	14	0.006079	0.003247	14.29	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.04987	0.00968	0.05	No	13	0.03438	0.04333	7.692	None	x ^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.004333	0.002103	0.05	No	13	0.004554	0.002228	46.15	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.136	0.05177	0.05	Yes	14	0.0939	0.05947	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	4	0.0005523	0.000517	50	None	No	0.0625	NP (normality)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	4	0.000768	0.000464	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	13	0.0005077	0.0002284	15.38	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	15	0.0005778	0.0004673	53.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00015	0.002	No	14	0.000355	0.00035	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	14	0.0005429	0.0001435	7.143	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.001122	0.0005097	0.002	No	14	0.0009721	0.000504	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	14	0.0006667	0.000464	64.29	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	13	0.0009287	0.0002571	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	14	0.0007385	0.0004291	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	14	0.0003507	0.0002785	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	14	0.0006719	0.0004569	64.29	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.000078	0.002	No	13	0.0007954	0.00039	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	13	0.0004038	0.0003442	23.08	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.0006127	0.0004368	0.002	No	14	0.0007243	0.0002381	35.71	Kaplan-Meier	sqrt(x)	0.01	Param.

Non-Parametric Confidence Interval

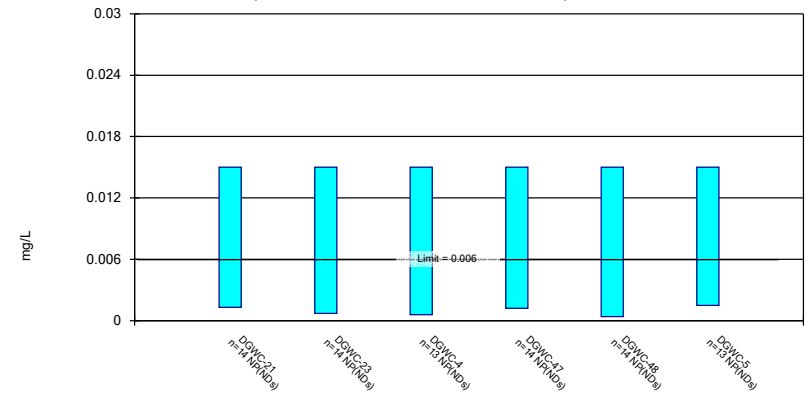
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Constituent: Antimony Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
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Non-Parametric Confidence Interval

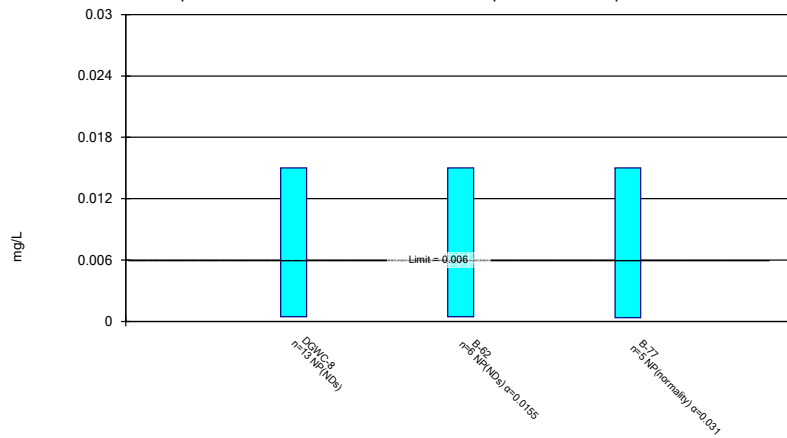
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Constituent: Antimony Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
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Non-Parametric Confidence Interval

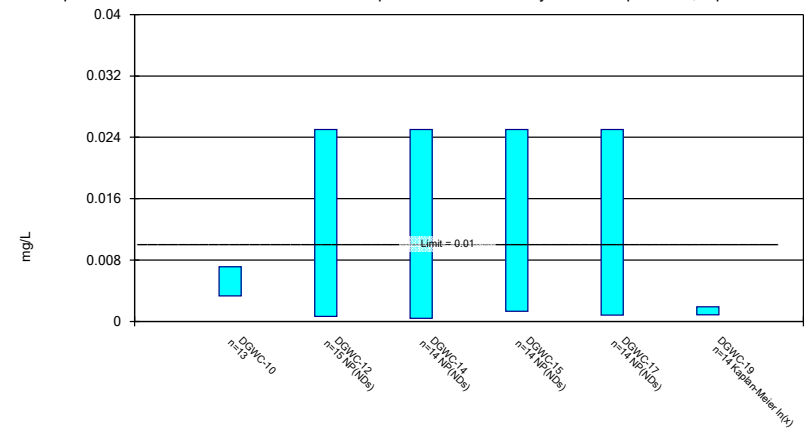
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Constituent: Antimony Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

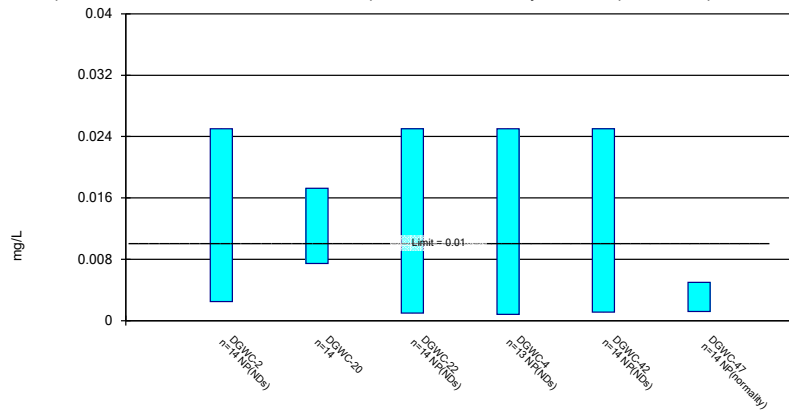
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Constituent: Arsenic Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

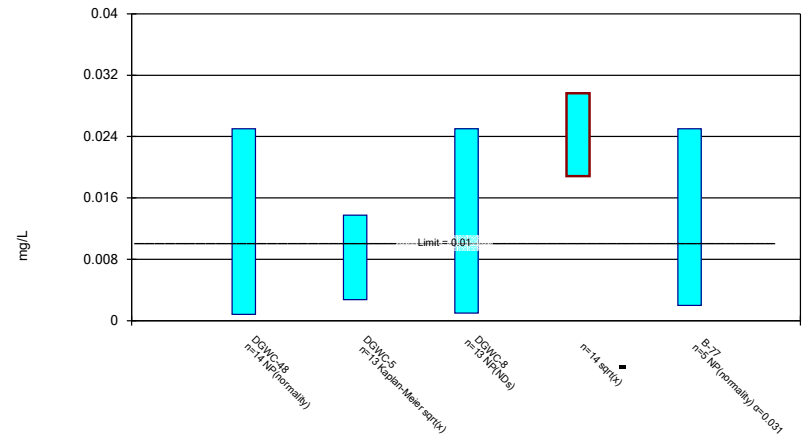
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

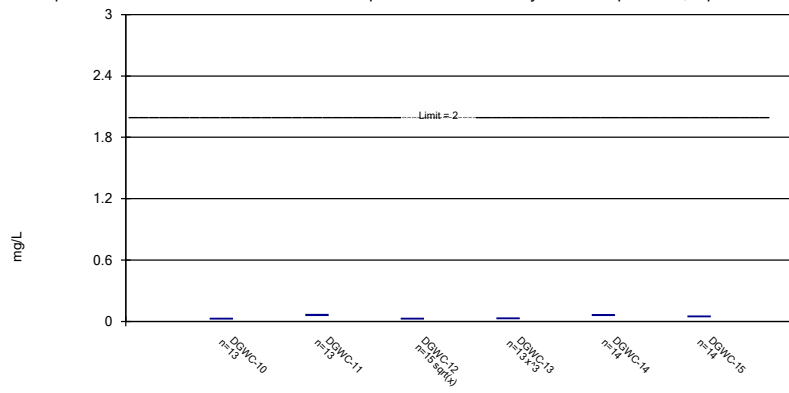
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

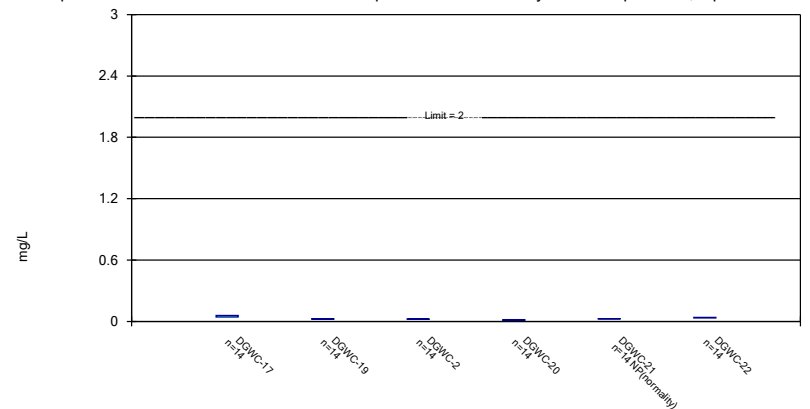
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Constituent: Barium Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

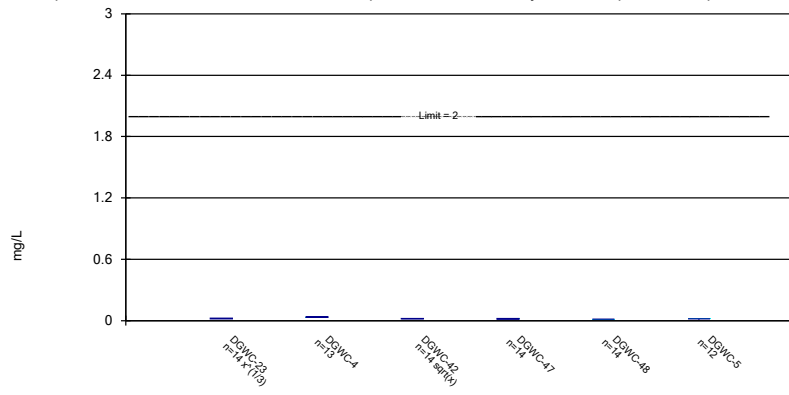
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

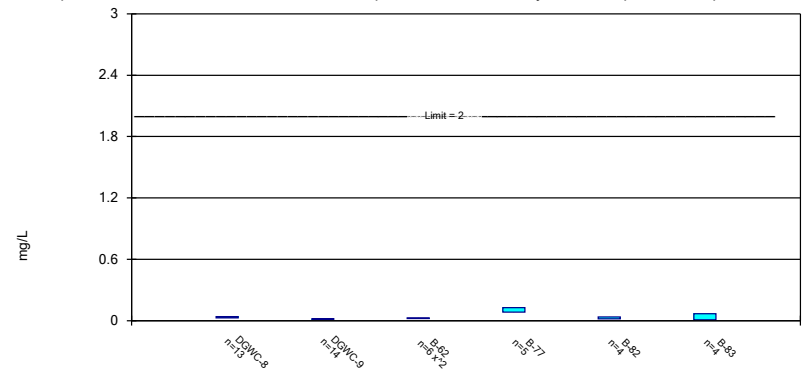
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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

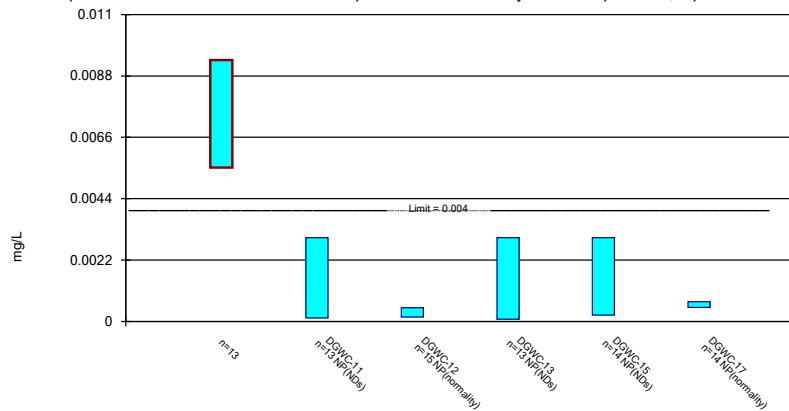
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Constituent: Barium Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

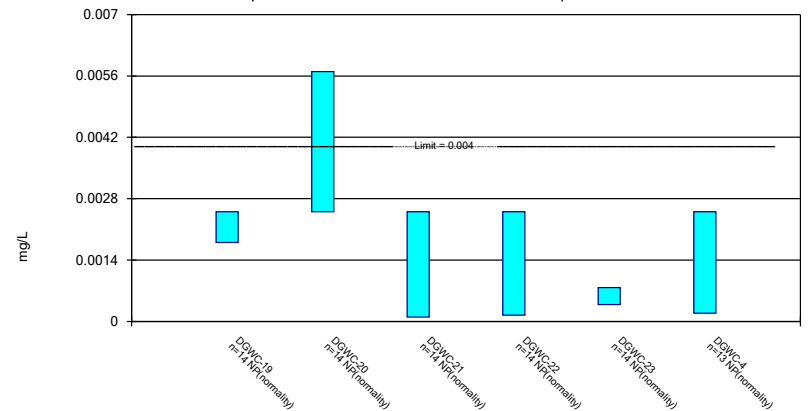
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

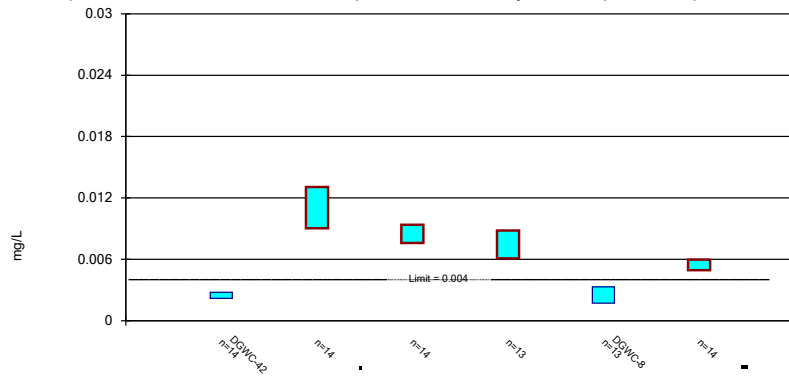
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

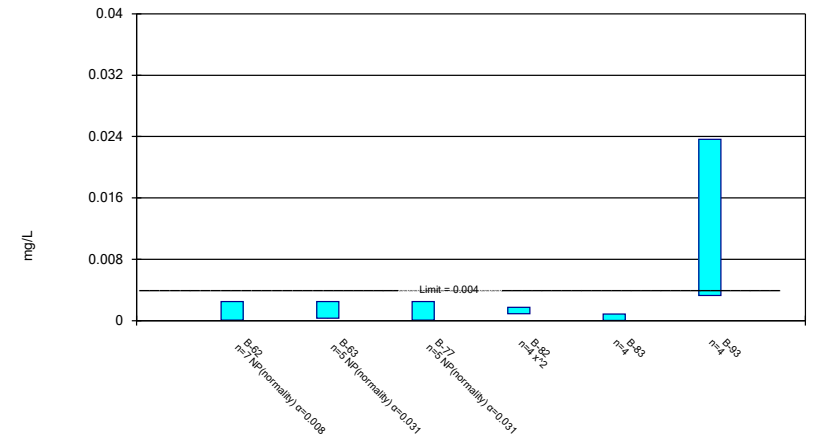
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

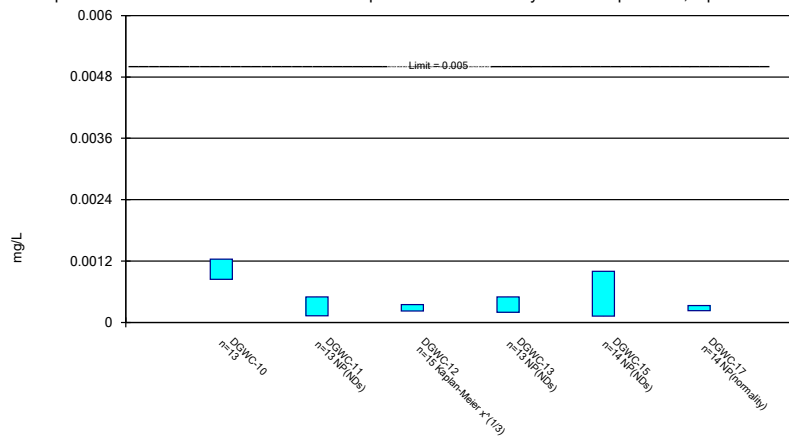
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

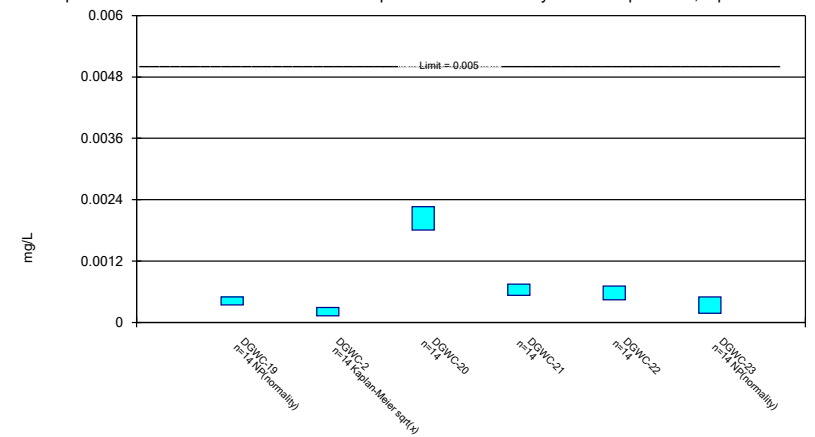
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

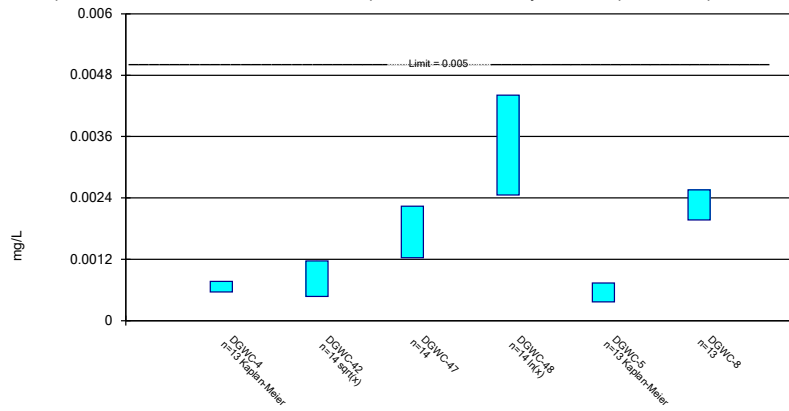
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 7/7/2021 11:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

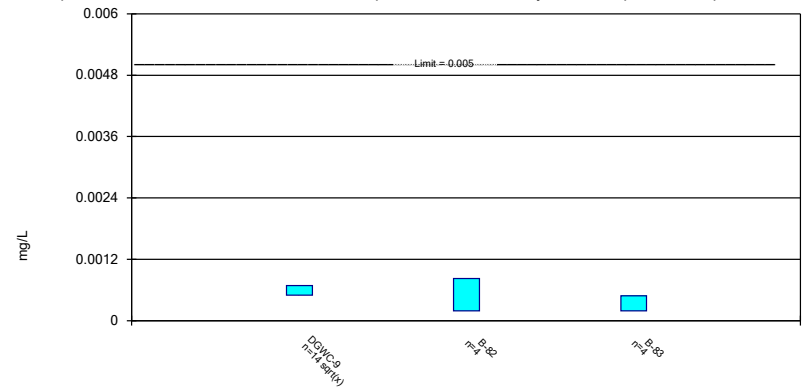
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

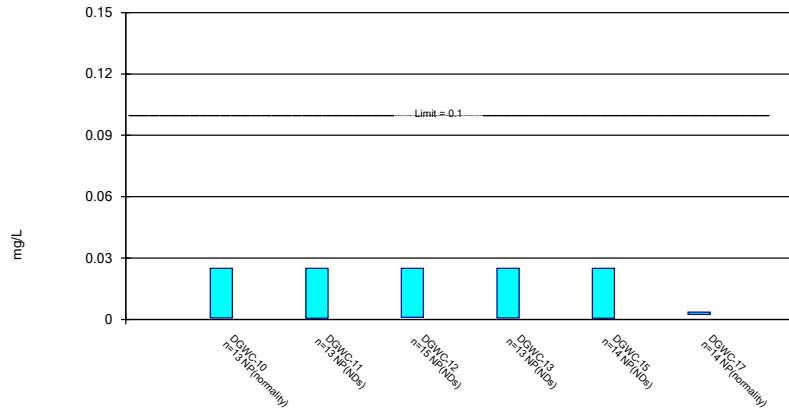
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Constituent: Cadmium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

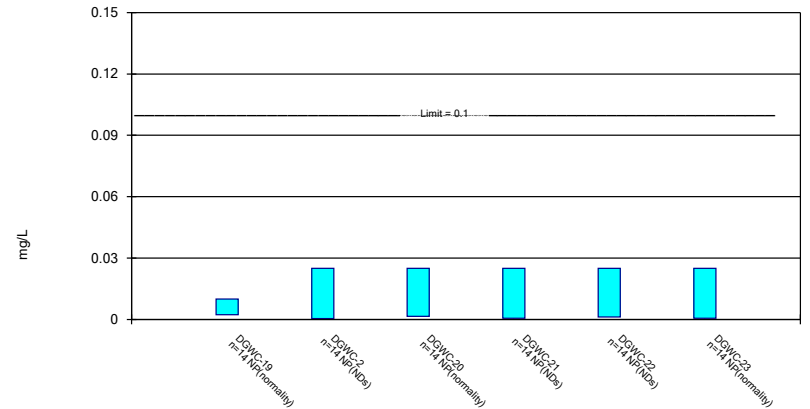
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Constituent: Chromium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

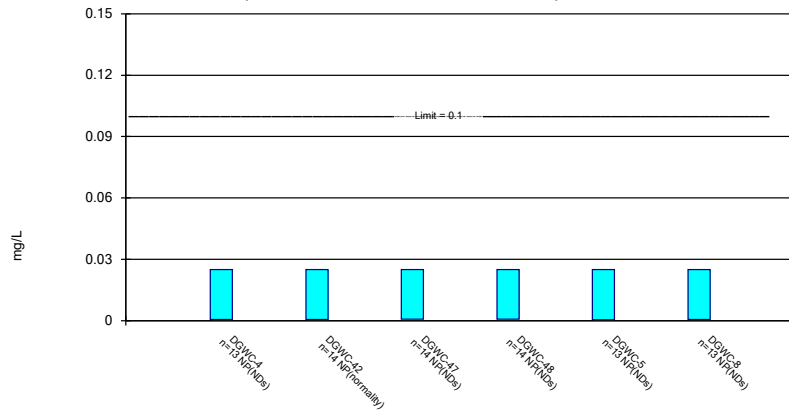
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Constituent: Chromium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

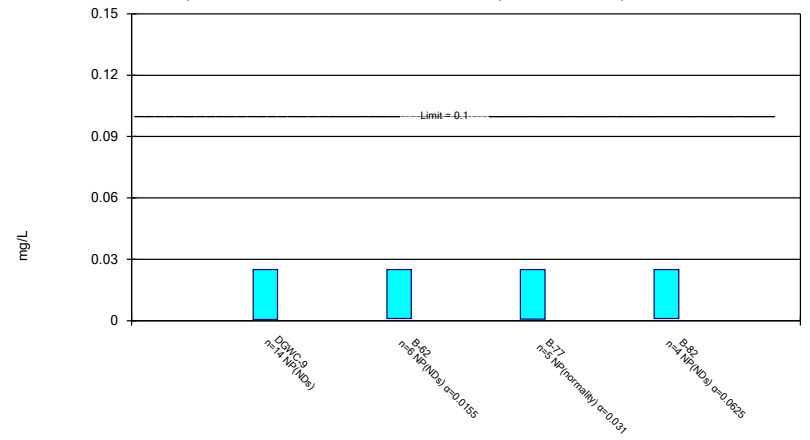
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

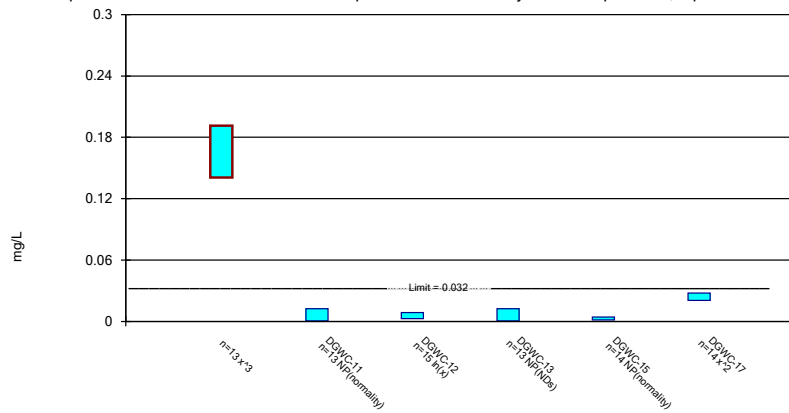
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

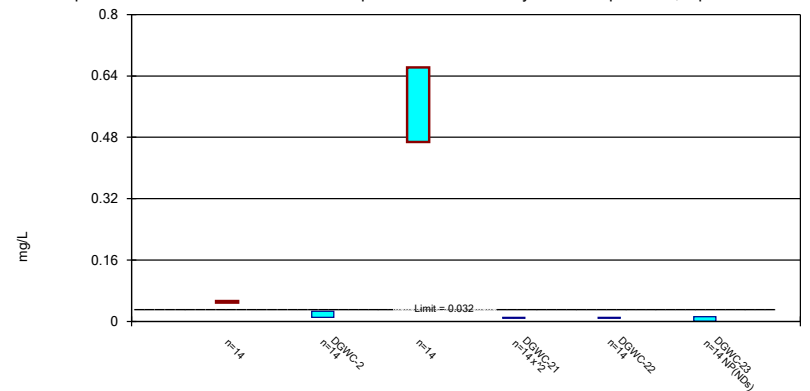
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

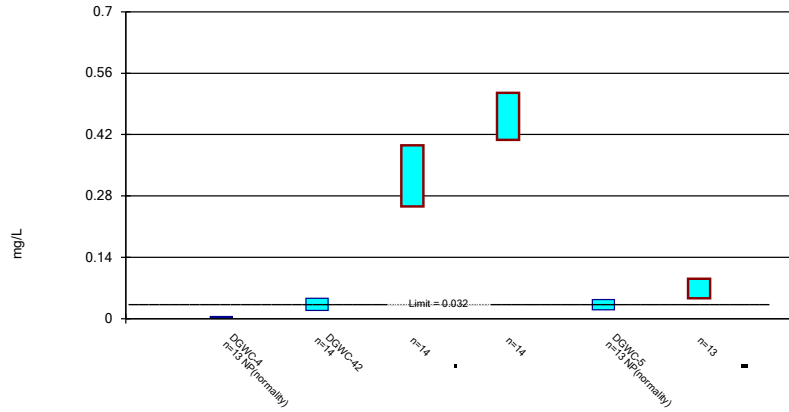
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

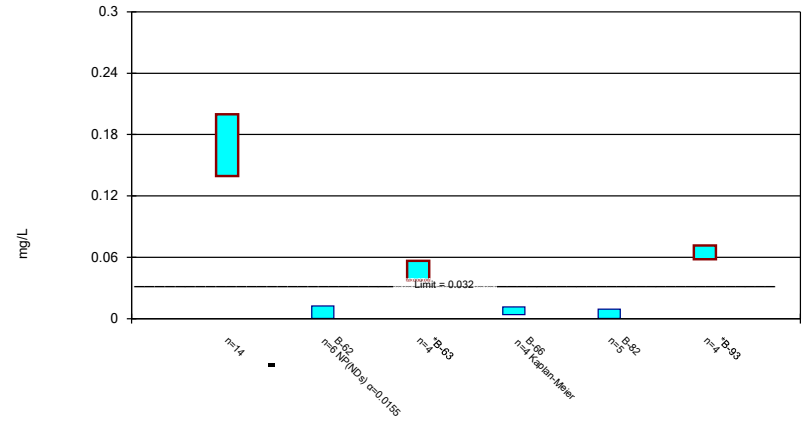
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

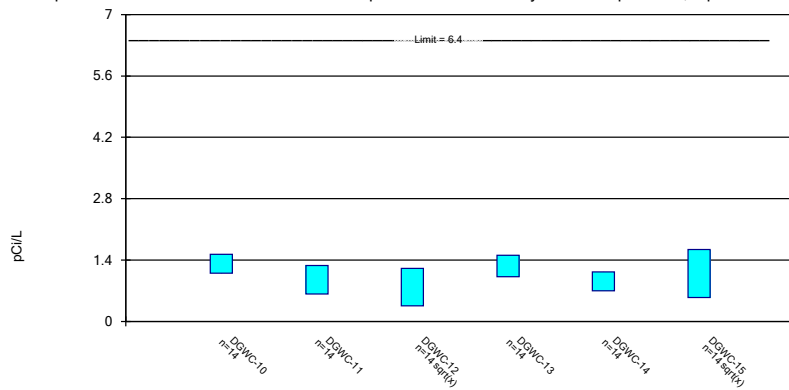
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

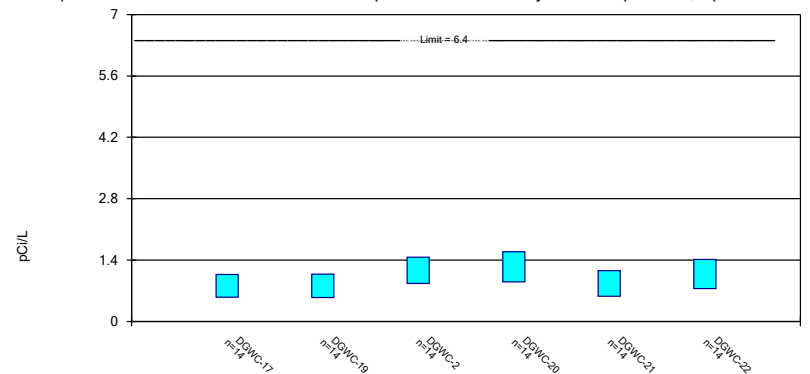
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

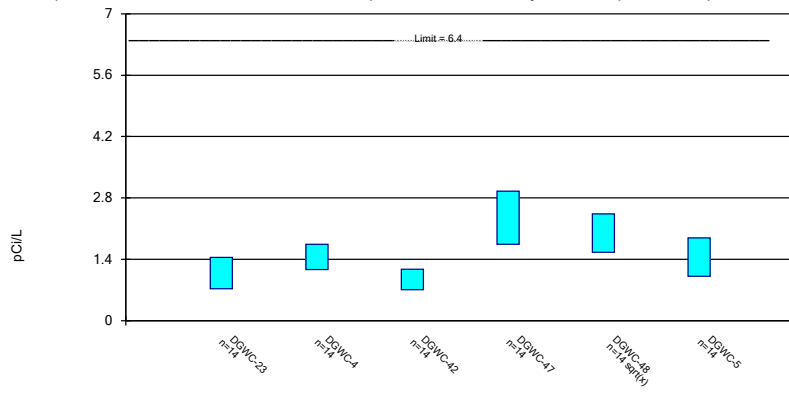
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

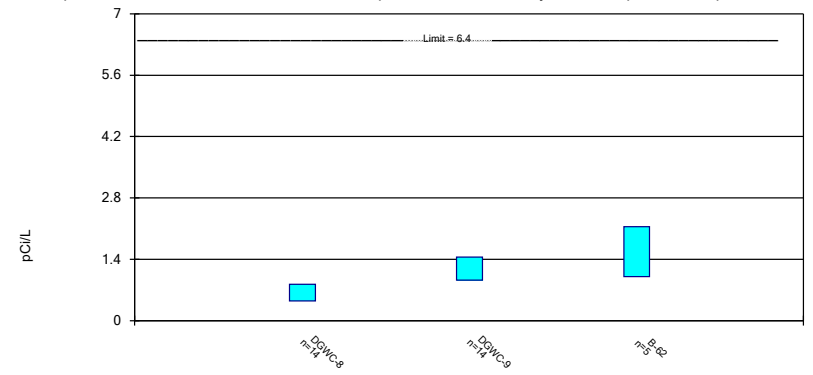
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

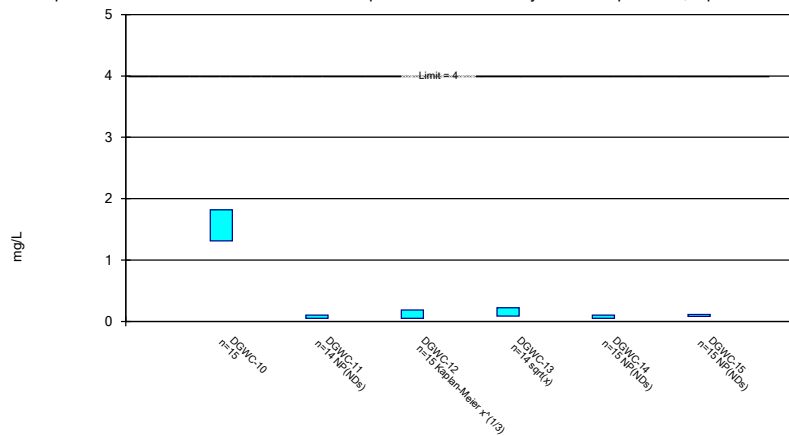
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

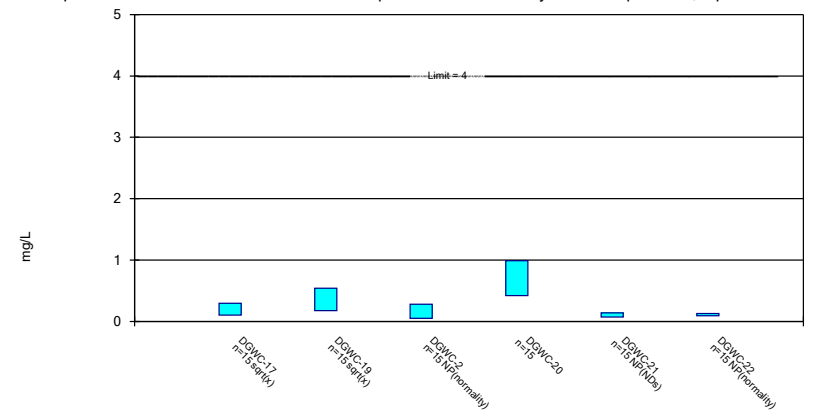
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

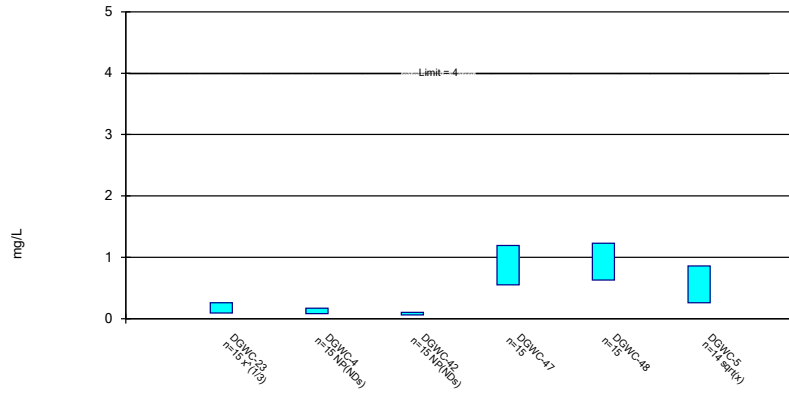
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

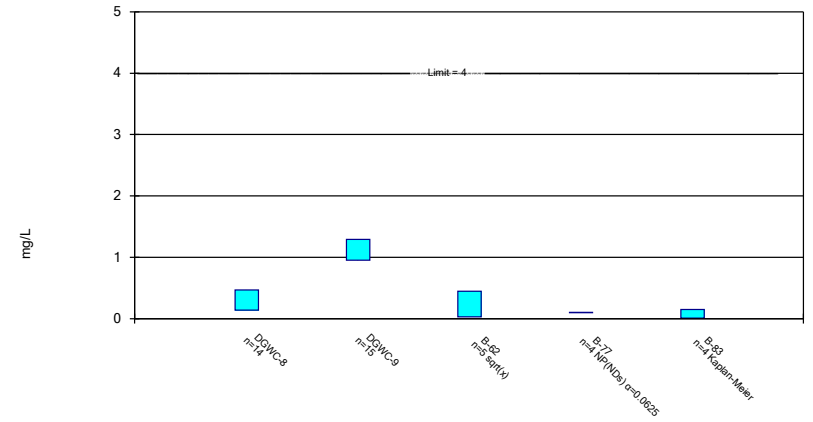
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

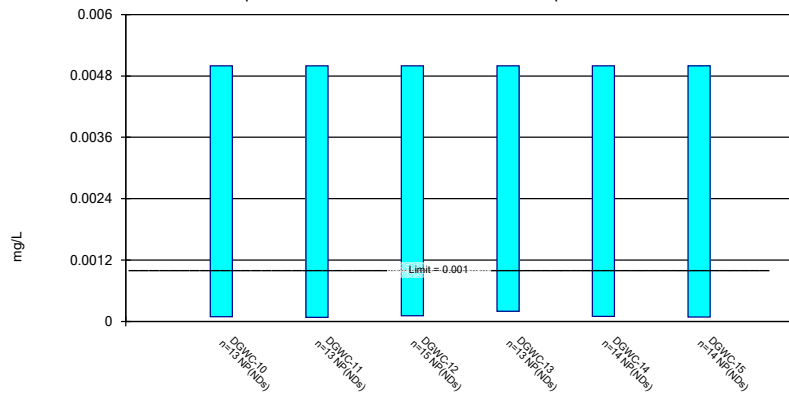
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

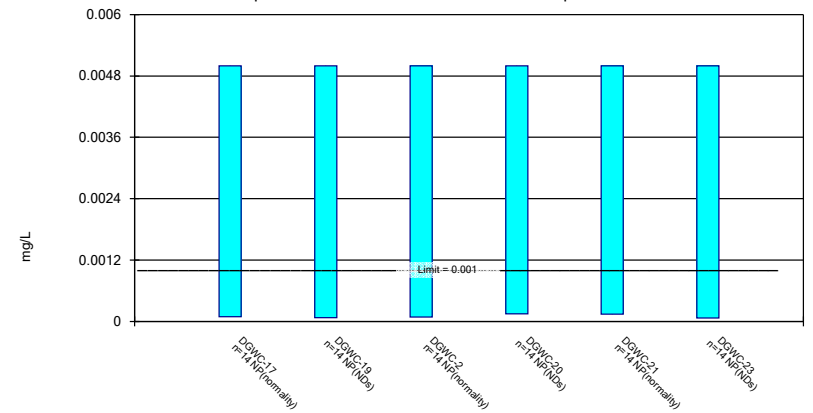
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

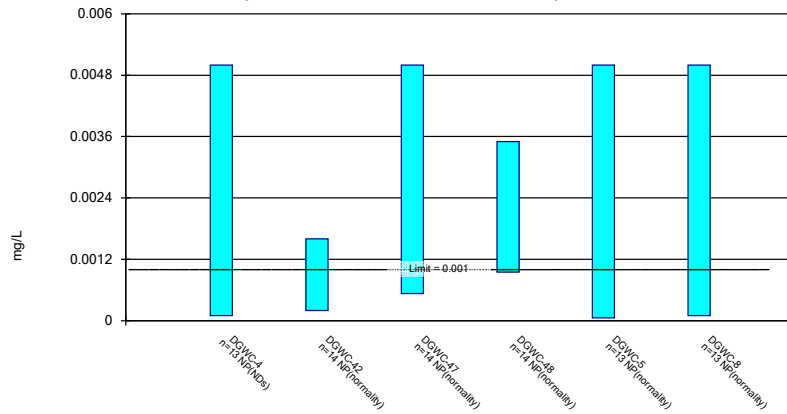
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

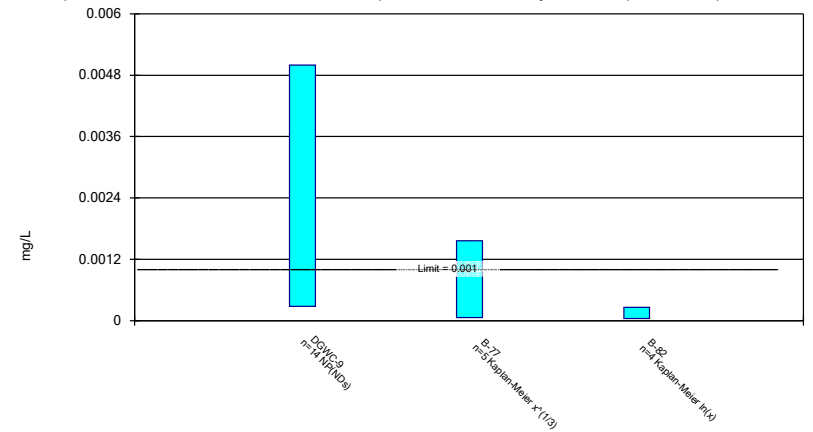
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

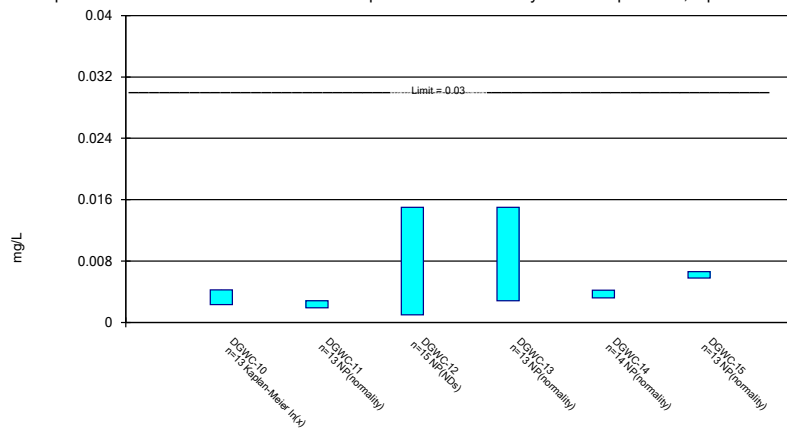
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

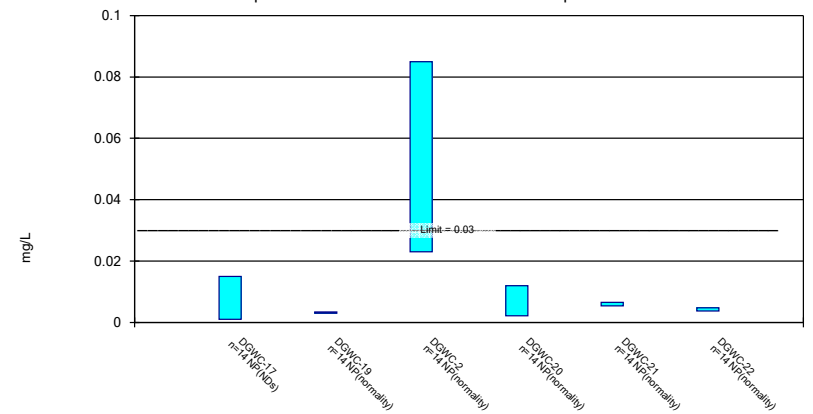
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

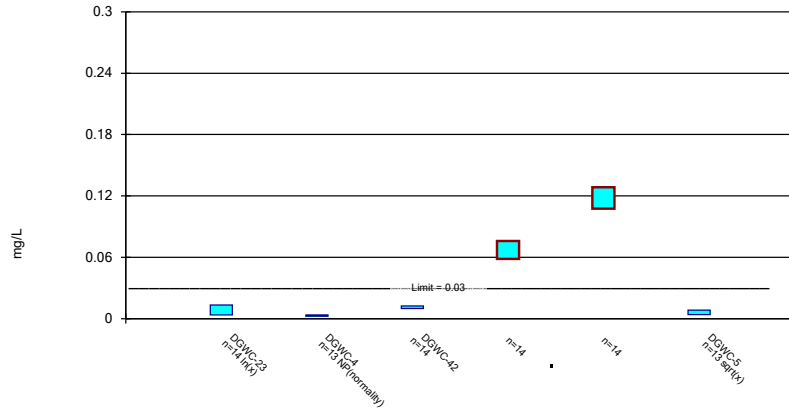
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

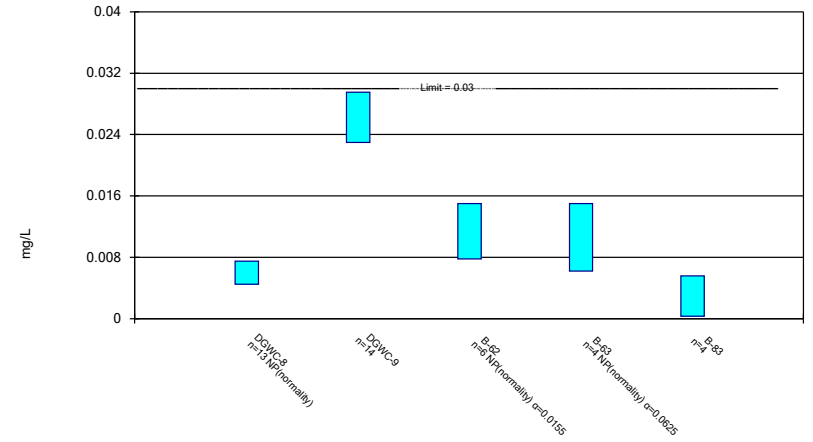
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Constituent: Lithium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

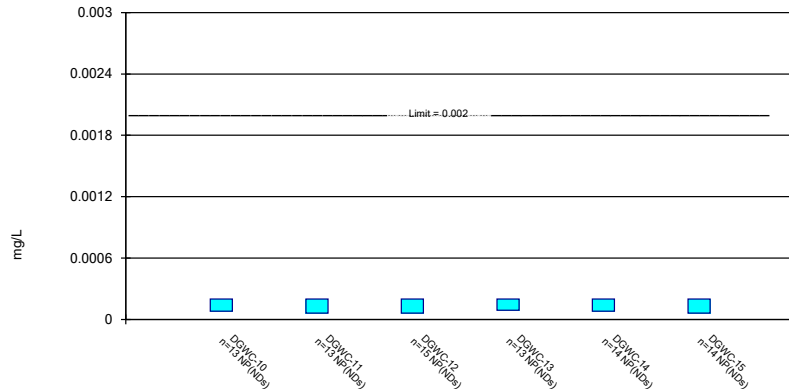
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

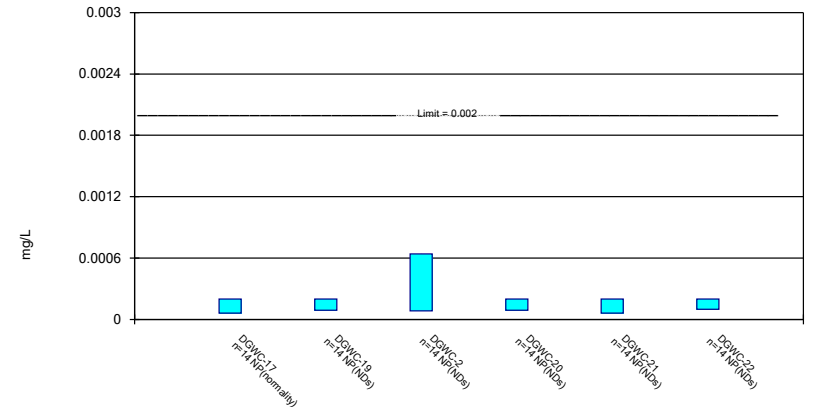
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

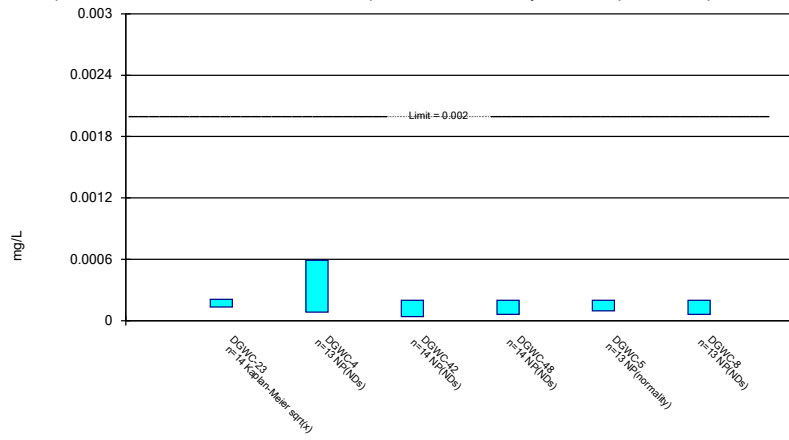
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

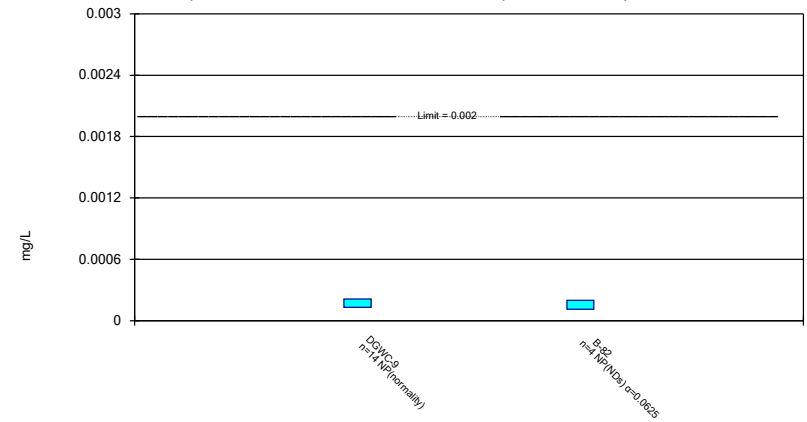
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

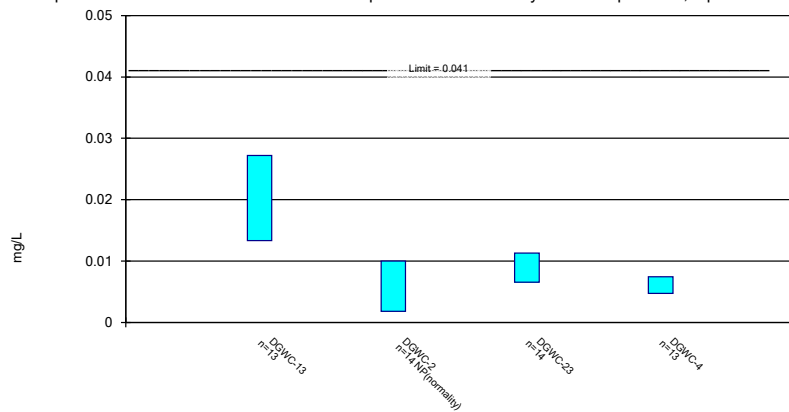
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

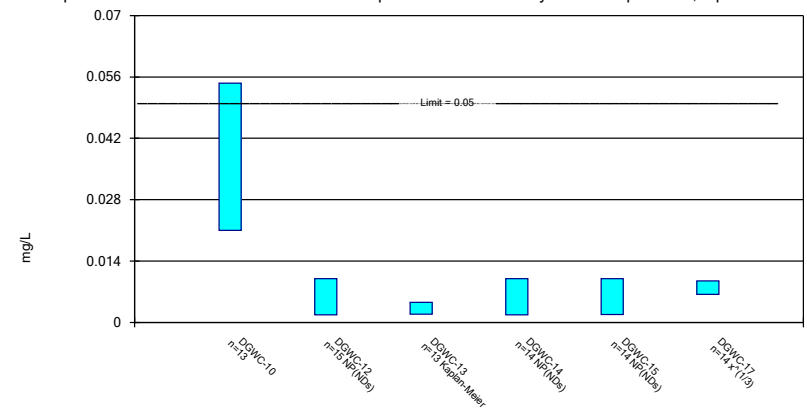
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

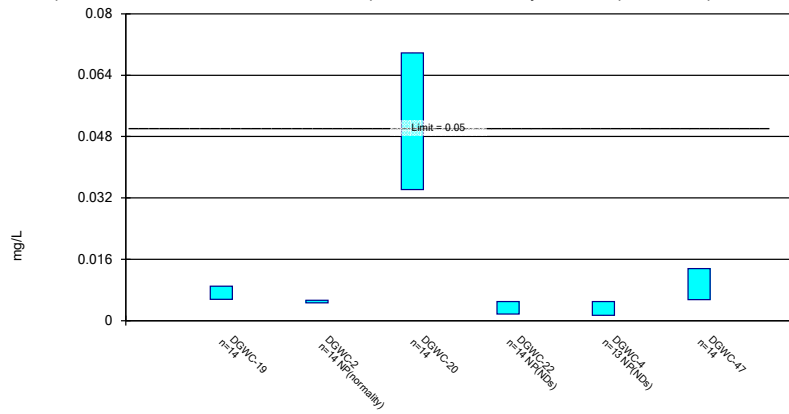
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

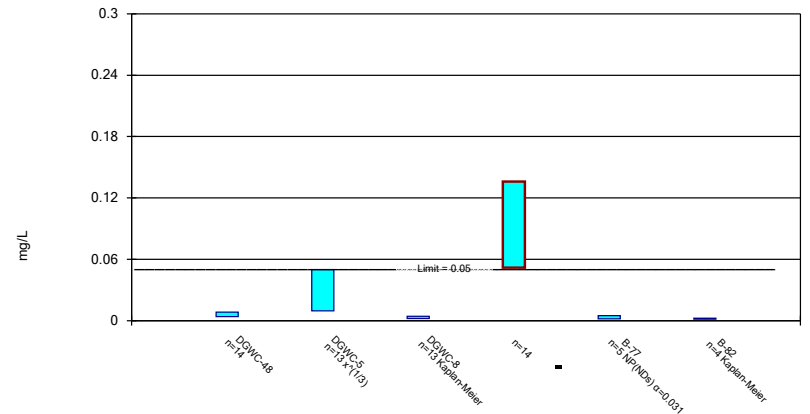
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

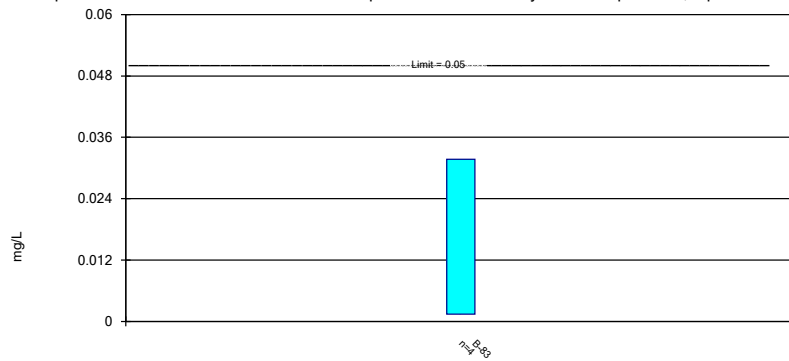
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

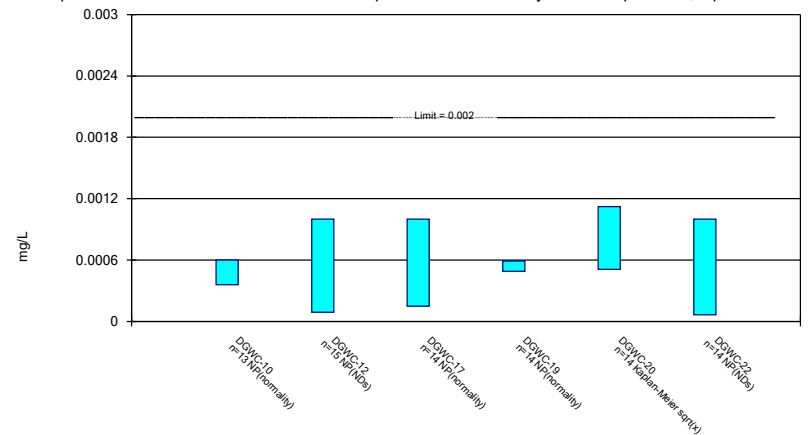
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

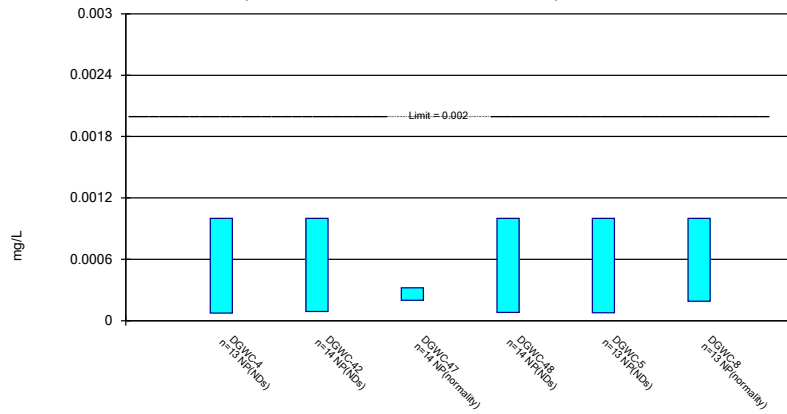
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

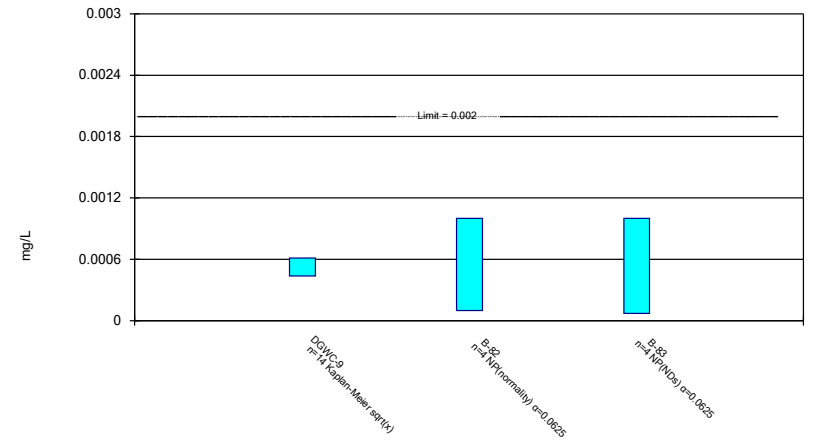
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

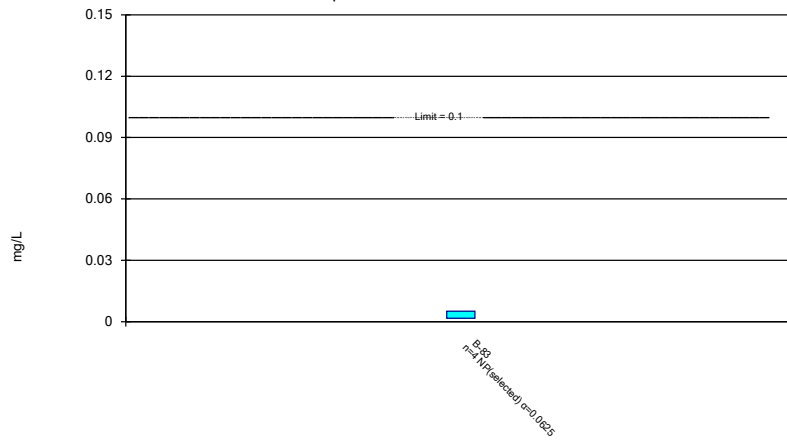


Constituent: Thallium Analysis Run 7/7/2021 11:38 AM View: AP 234 Confidence Intervals
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-parametric Confidence Intervals

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

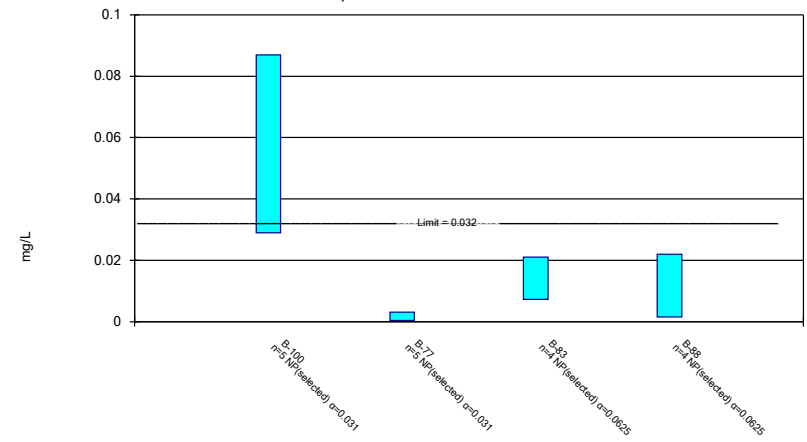


Normality testing disabled.

Constituent: Chromium Analysis Run 7/7/2021 11:42 AM View: AP 234 Confidence Intervals Nonparametr
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

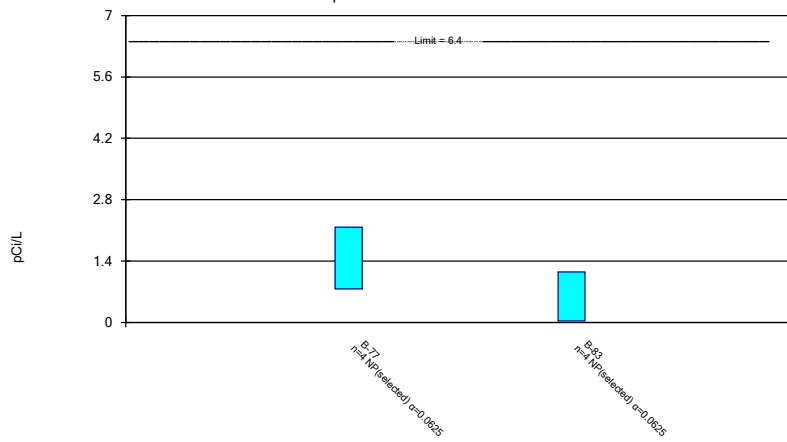


Normality testing disabled.

Constituent: Cobalt Analysis Run 7/7/2021 11:42 AM 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 7/7/2021 11:42 AM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

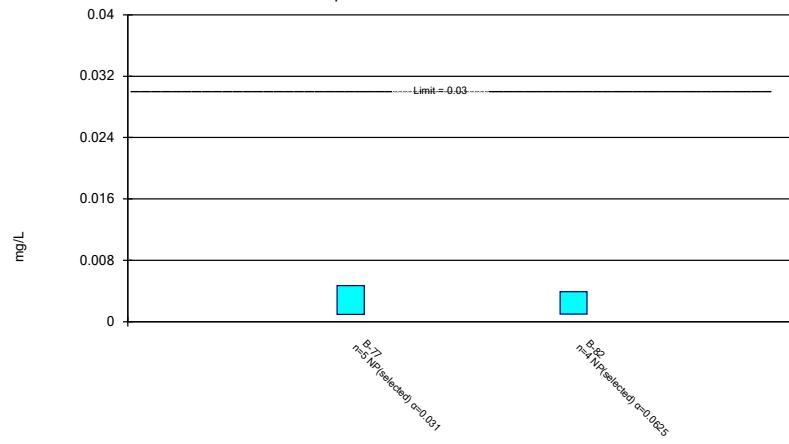


Normality testing disabled.

Constituent: Lead Analysis Run 7/7/2021 11:42 AM 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 7/7/2021 11:42 AM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

APPENDIX D

**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 Inc.

5170 Peachtree Road Building 100 Suite 300, Atlanta, Georgia, USA 30341

+1 770 496-1893

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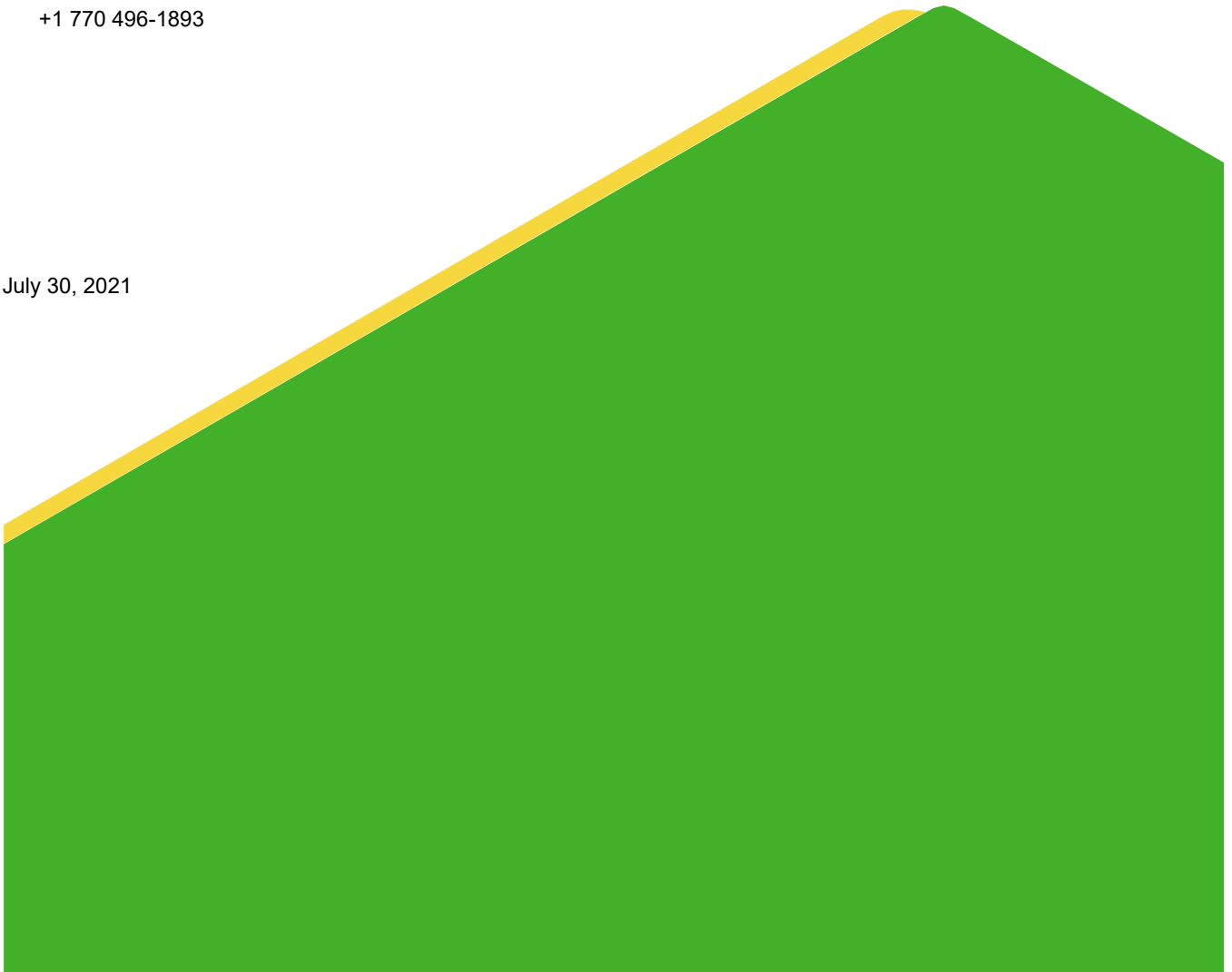


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Certification

This *Semi-Annual Remedy Selection and Design Progress Report, Georgia Power Company – Plant McDonough-Atkinson, Ash Pond 2 and Ash Pond 3/4 (AP-2 and 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).

Golder Associates Inc.



Dawn L. Prell
Senior Hydrogeologist



Rachel P. Kirkman, PG
Georgia Professional Geologist No. 1756



Gregory L. Hebel, PhD, PE
Georgia Licensed Professional Engineer No. 034749

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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]; published in 80 FR 21302-21501, April 17, 2015 (CCR Rule; USEPA, 2015), Golder Associates Inc. (Golder) has prepared this *Semi-Annual Remedy Selection and Design Progress Report* (Semi-Annual Progress Report) for Georgia Power Company's (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 Progress 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, 2020a).

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 a statistically significant level (SSL). 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 a SSL on January 28, 2021 at well DGWC-9. The SSL is reported in the annual report for which this report is an appendix.

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 the results will be submitted with the Remedy Selection Report.

1.1 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)
- In-Situ Solidification/Stabilization (ISS)
- Monitored Natural Attenuation (MNA)
- Permeable Reactive Barrier (PRB)

- Phytoremediation
- 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. This progress report also serves to incorporate the SSL of selenium at well DGWC-9.

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:** 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.
- **Phytoremediation:** Phytoremediation uses trees and other plants to degrade or immobilize constituents or achieve hydraulic control without the need for an above-ground water treatment system and infrastructure. Within the context of AP-2 & 3/4, this corrective measure would likely use an engineered (proprietary) TreeWell® phytoremediation system along the point of compliance or downgradient edge of the impacted groundwater for hydraulic control. The system promotes root development to the targeted groundwater zone (depth), allowing for hydraulic control of impacted groundwater.
- **In-Situ Solidification Stabilization (ISS)** – AP-2 and 3/4 is currently undergoing a closure process that includes dewatering and consolidation of ash. In-situ stabilization can be a reliable corrective measure for As, Be, Co, Li and Se in groundwater. The application of ISS is reliant on the final closure schedule and construction for AP-2 and 3/4. This option may not be implemented until construction progresses.

The following remedial alternatives have been removed from consideration:

- **Permeable Reactive Barrier (PRB)** - Other retained options are more suitable for corrective action rather than the installation of a PRB. The lack of space between the unit boundary and the property line as Sequestration of some CCR constituents is achievable by a PRB. However, there could be biofouling and excessive mineral precipitation, which reduces the effectiveness of media over. Further, construction of a PRB is likely to impede or restrict restoration of natural groundwater flow across AP-3/4.
- **Subsurface Vertical Barrier Wall (SVBW)** - The approved closure method, including dewatering and capping the unit and consolidation and drying of the ash to a smaller footprint, makes constructing a SVBW outside the perimeter of the AP-2 and 3/4 boundary unnecessary.

1.2 Adaptive Site Management

Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (Golder, 2020a) 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 EPA guidelines for MNA (USEPA 2007, 2015). In 2007, the USEPA issued MNA technical guidance specific to inorganic contaminants (USEPA, 2007) that contained four “tiers.” The 2015 MNA guidance retains these four “tiers,” but describes them as “phases” as described below (USEPA, 2015). This 2015 MNA document for inorganic contaminants expands on and is designed to be a companion to the 1999 MNA guidance.

- **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 AP-2 AND 3/4 CLOSURE ACTIVITIES

Closure by removal of ash in AP-2 was completed in September 2016. Closure procedures included excavating all visible ash, 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 acknowledged on October 14, 2020. AP-3 and adjacent AP-4 are currently being consolidated and closed in place as combined 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). 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. Over

excavation is currently underway. During closure, AP-3 and AP-4 are being dewatered as required to facilitate consolidation and closure in place. CCR will be 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).

3.0 SUMMARY OF WORK COMPLETED

The following sections summarize field investigation activities and supplemental data collected since the previous *Semi-Annual Remedy Selection and Design Progress Report* (Golder 2021a) to 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 for groundwater impacts from 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).

3.1 Nature and Extent Delineation

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 statistically significant increases (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.

The current 2021 assessment monitoring groundwater data show statistically significant levels (SSLs), as presented in the table below, at concentrations exceeding the state and/or federal Groundwater Protection Standards (GWPS). Details are provided in the *2021 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2021a).

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
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-63, B-98
Lithium	DGWC-47, DGWC-48
Selenium	DGWC-9

The locations of the site monitoring wells and piezometers are shown on Figures 2A and 2B. Table 2 provides a summary of well construction details for each of the site wells and piezometers, respectively. Potentiometric surface maps illustrating the February 2021 potentiometric surface elevations are provided on Figures 3A and 3B.

Horizontal and Vertical Delineation Well Installation

To characterize the nature and extent of target constituents, shallow and deep piezometers were installed and sampled. In addition, surface water was previously sampled at multiple locations to demonstrate horizontal delineation in surface water bodies where proximity to surface water prevented installation of additional wells.

Figures 4 through 8 present iso-concentration contours for of each of the constituents with an exceedance of the GWPS, including arsenic, beryllium, cobalt, lithium and selenium, respectively.

In response to the observed SSLs as presented above, vertical delineation wells were installed within the weathered/fractured bedrock. During April through May 2021 additional wells were installed adjacent to locations B-120D (adjacent B-3) and B-115D (downgradient of DGWC-47 and DGWC-48). In addition, an upgradient shallow and deep well pair (B-118/B-119D), deep well B-116D (paired with DGWC-70A) and B-117D (paired with DGWA-71) were installed for site-wide monitoring and are being evaluated to update the statistical network.

A summary of piezometer installation details for each of the site wells and piezometers (e.g., boring logs) is documented within separate piezometer installation reports (Golder, 2020b; Golder, 2021b; and Golder, 2021c).

Groundwater Sampling

In March through May 2021, groundwater samples were collected from delineation wells B-115D, B-116D, B-117D, B-118, B-119D, and B-120D and analyzed for Appendix III and Appendix IV constituents and major cations/anions (i.e., bicarbonate/carbonate alkalinity, sodium, magnesium, and potassium). Results of this sampling event are provided in the *2021 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2021a). Statistical analysis of the Appendix IV data will occur after four sampling events are completed to construct the confidence intervals required to evaluate and confirm potential SSLs. Georgia Power will continue to monitor the delineation wells and adaptively manage the Site as new data become available.

Surface Water Sampling

Due to the proximity of the surface water body downgradient of AP-2 and 3/4, Georgia Power collected surface water samples from the Chattahoochee River downgradient of AP-2 and 3/4 on November 10, 2020, and February 2, 2021. Results of these sampling events are presented in Appendix A of the *2021 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2021b), for which this report is an appendix. Cobalt is not detected in the Chattahoochee River. Based on data collected to date, there are no impacts to surface water. Georgia Power will continue to collect surface water samples on a semi-annual basis.

3.2 Supplemental Data Collection

Additional field investigation activities and data analyses have been performed to continue to delineate the vertical extent of constituents in groundwater and to evaluate possible remedial alternatives. A summary of these data is included below.

Chemical Analysis

Chemical analysis of soils/rock for Uranium-235, Uranium-238, Thorium-232, Thorium-235, and Radium 228 was completed as part of a radium source study to document the naturally occurring radium at the Site. Rock core samples from the screened intervals at B-104D, B-109D, B-111D, B-115D, B-116D, B-117D, and B-119D were submitted to Pace Analytical Laboratories of Peachtree Corners, GA for these analyses. Results of these analyses are presented in Appendix A. Preliminary evaluation of these data supports the presence of naturally-occurring radium at the site and an Alternate Source Demonstration will be prepared if an SSL of radium is identified once a sufficient number of samples have been collected to statistically analyze the results.

Aquifer Testing Activities

Aquifer tests (slug tests) were performed in May 2021 at select bedrock piezometers (i.e., B-111D, B-112D, B-113D, B-115D and B-120D) as well as upgradient bedrock piezometers B-116D, B-117D, B-118, B-119D. The purpose of the testing was to estimate the horizontal hydraulic conductivity of aquifer materials encountered at the site.

In situ rising-head and falling-head tests provide a quantitative estimate of horizontal hydraulic conductivity and a qualitative estimate of aquifer anisotropy in water-bearing units. The slug test data was analyzed using the mathematical solution by Bouwer and Rice (Bouwer and Rice, 1976 and Bouwer, 1989), which is applicable to fully or partially penetrating piezometers in unconfined or confined aquifers.

The computer software program AQTESOLV[®], produced by HydroSOLVE, Inc., was used to assist in the analysis and plotting of data. The best fit lines were initially calculated by the computer software and were then adjusted manually, where necessary. A summary of the aquifer testing is presented in Table 3 and results are generally consistent with previous reported results (Golder, 2020c). Results of these analyses are presented in Appendix B. These new data are consistent with previous findings and will be used to supplement existing hydraulic conductivity data. An updated understanding of aquifer properties, including conductivity, will help refine the conceptual site model, and support assessment of certain groundwater corrective measures.

4.0 UPDATED SITE CONCEPTUAL SITE MODEL

The additional data collected since the issuance of the ACM Report, together with new data evaluation tools and interpretations (described above), 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.

- The February 2021 potentiometric surface shows groundwater flow is generally south towards the Chattahoochee River, as shown on Figures 3A and 3B. The latest water level data collected in February 2021 confirm groundwater flow in the uppermost aquifer to be consistent with the predicted groundwater modeling during dewatering activities.
- Additional data (e.g., slug tests) have been evaluated to refine the hydraulic conductivities at the site (Table 3). These data are consistent with historical slug test data reported for the respective lithological units across the site.
- The boring logs from the vertical delineation wells have provided a more refined top of bedrock surface and confirmed geology consistent with that presented the CSM (i.e., gneiss and schist).

5.0 CORRECTIVE MEASURES ALTERNATIVES

Based on the data collected to date, five of the seven potential corrective measures being evaluated for AP-2 and 3/4 are retained for further evaluation. Table 1 presents a summary of each of the remedial alternatives presented as part of the ACM Report. Table 4 provides a summary of additional data planned to be collected to further evaluate the feasibility of the remaining alternatives. The retention evaluation (Retained for Further Evaluation or Not Retained) for each potential remedial alternative is included on Table 1. The following three remedial alternatives have been retained for further consideration:

- **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:** 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.
- **Phytoremediation:** Phytoremediation uses trees and other plants to degrade or immobilize constituents or achieve hydraulic control without the need for an above-ground water treatment system and infrastructure. Within the context of AP-2 & 3/4, this corrective measure would likely use an engineered (proprietary) TreeWell® phytoremediation system along the point of compliance or downgradient edge of the impacted groundwater for hydraulic control. The system promotes root development to the targeted groundwater zone (depth), allowing for hydraulic control of impacted groundwater.
- **In-Situ Solidification Stabilization (ISS)** – AP-2 and 3/4 is currently undergoing a closure process that includes dewatering and consolidation of ash. In-situ stabilization can be a reliable corrective measure for As, Be, Co, Li and Se in groundwater. The application of ISS is reliant on the final closure schedule and construction for AP-2 and 3/4. This option may not be implemented until construction progresses

6.0 PLANNED ACTIVITIES

Georgia Power has initiated activities as outlined in the ACM Report (Golder, 2020a) 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. At this time, and as discussed in Section 5.0, four of the corrective measures outlined in the ACM Report are being retained for further evaluation, including:

- Geochemical Approaches (In-Situ Injection)
- Hydraulic Containment (Pump and Treat)
- Monitored Natural Attenuation (MNA)
- Phytoremediation
- In-Situ Solidification/Stabilization (ISS).

Supplementary data collection and evaluation activities proposed to be completed within the next 6 months are presented on Table 4, with the key elements summarized below.

- Vertical delineation will continue to be evaluated. Additional monitoring wells, as appropriate, will be installed to complete vertical delineation.
- Collect additional groundwater quality data to complete statistical analyses of delineation data. In addition to Appendix III/IV constituents, wells may also be analyzed for major cations/anions and other parameters for characterization of groundwater and evaluating the potential remedies.
- Refine bedrock surface based on data collected from newly installed horizontal and vertical delineation wells (as needed).
- Evaluate Site data for attenuation mechanism and rates, aquifer capacity for attenuation, and mineralogical characterization.
- Evaluate potential radius of influence for geochemical injections and determine the conceptual layout to achieve injection radius in target areas.

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.

7.0 REFERENCES

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TABLES

TABLE 1
Evaluation of Remedial Technologies
 Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
 Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Description	Performance	Reliability
Geochemical Approaches (in situ injection)	Use of an injection well network, or other means of introducing reagents or air into the subsurface, to provide suitable reagents for either anaerobic or aerobic attenuation of arsenic (As), beryllium (Be), cobalt (Co), lithium (Li) and selenium (Se). Under anaerobic conditions, As would be attenuated within sparingly soluble sulfide minerals. Under aerobic conditions, soluble iron or manganese and oxygen (either via air sparging or through a chemical oxidant) would be injected to promote the formation of iron or manganese (oxy-) hydroxides for subsequent sorption of As, Be, Co, Se and to a lesser degree Li onto these mineral phases. If sufficient iron is present in groundwater, the use of air sparging alone may be considered to precipitate iron (oxy-) hydroxides for sorption. In-situ chemical oxidation (ISCO) or in-situ chemical reduction (ISCR) can be used to chemically alter the redox environment in the subsurface to affect the mobility of certain inorganic compounds, including As.	The effective immobilization of As, Be, Co, Li and Se has been shown under aerobic and anaerobic conditions; however, the anaerobic approach (involving the injection of an electron donor together with iron or manganese and sulfur) requires careful study and testing. While aerobic approaches are somewhat less complex, additional aquifer characterization is needed to further evaluate these options.	Reliability dependent on permeability of the subsurface and the amount and distribution of secondary iron or manganese (oxy-) hydroxides (for aerobic approach), or electron donors and soluble iron or manganese and sulfur that can be consistently distributed (for anaerobic approach). Reliable technology if injected materials can be distributed throughout the impacted aquifer. Bench- and/or pilot-scale treatability testing programs are needed to understand the biogeochemical processes that would effectively reduce migration of As, Be, Co, Li and Se in groundwater.
Hydraulic Containment (pump- and-treat)	Hydraulic containment refers to the use of groundwater extraction to induce a hydraulic gradient for hydraulic capture or control the migration of impacted groundwater. This approach uses extraction wells or trenches to capture groundwater, which may subsequently require above-ground treatment and permitted discharge to a receiving water feature, reinjection into the groundwater, or reuse (e.g., land application, CCR conditioning, etc.). It is applicable to a variable mix of inorganic constituents, including dissolved As, Be, Co, Li and Se.	Pump and treat (P&T) is effective at providing hydraulic control, but it is unclear whether full groundwater remediation can be achieved without further understanding attenuation mechanisms at the Site. At AP-2 & 3/4, implementation of the corrective measure is contingent on completing additional assessment activities (i.e., high-resolution site characterization, additional pump tests, flow modeling, and capture zone analysis). This is needed to refine the constituent distribution in the subsurface to target specific zones for pumping for improved mass recovery efficiency/ effectiveness and to further evaluate the potential remedy performance.	Generally reliable for hydraulic containment, but uncertainty exists whether groundwater remediation goals can be achieved within a reasonable time frame without further understanding attenuation mechanisms.
In-Situ Solidification / Stabilization (ISS)	In-situ stabilization (ISS) is a technique that uses mixing of the CCR with additives to solidify the material in place and reduce future dissolution of CCR compounds from the stabilized material. Additives typically include Portland cement, and the solidification is completed in-situ using large diameter augers. CCR located beneath the water table would be isolated by ISS.	Medium to high, groundwater impacts would be addressed through the processes of natural attenuation. This alternative would isolate/secure the source in a bound matrix, and over time, allow the concentrations of COCs in downgradient groundwater to decline to below applicable standards.	In-situ stabilization can be a reliable corrective measure for As, Be, Co, Li and Se in groundwater. Reliability is dependent on the permeability of the subsurface and mechanics of injection.
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	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	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
	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.	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.	
Permeable Reactive Barrier (PRB)	Permeable reactive barrier (PRB) technology typically involves the installation of a permeable subsurface wall constructed with reactive media for the removal of constituents as groundwater passes through. Either ZVI-Carbon matrix or solid carbon (bio-barrier) are currently proposed for the concurrent removal of As, Be, Co, Li and Se. The carbon could be composed of peat moss, mulch or another carbon source. Exact placement of the PRB is contingent on finalization of the nature and extent characterization. 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.

Phyto Remediation (TreeWell®)	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 use an engineered (proprietary) TreeWell® phytoremediation system along the point of compliance or downgradient edge of the impacted groundwater for hydraulic control. The system promotes root development to the targeted	Once established (typically at the end of the third growing season), a TreeWell® system is effective for providing hydraulic containment of groundwater, and potential reduction of 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	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
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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
	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.	& 3/4. Additional aquifer testing and/or groundwater flow modeling may be needed to confirm the suitability at that time.	groundwater flow modeling to evaluate the required number and placement of TreeWell® units.
Subsurface Vertical Barrier Walls	This approach involves placing a barrier to groundwater flow in the subsurface, frequently around a source area, to prevent future migration of dissolved constituents in groundwater from beneath the source to downgradient areas. In general, barrier walls are designed to provide containment; localized treatment achieved through the sorption or chemical precipitation reactions from construction of the walls are incidental to the design objective. Barrier walls can also be used in downgradient applications to limit discharge to a surface water feature or to reduce aquifer recharge from an adjacent surface water feature when groundwater extraction wells are placed near one. A variety of barrier materials can be used, including cement and/or bentonite slurries, geomembrane composite materials, or driven materials such as steel or vinyl sheet pile. Groundwater extraction from upgradient of the barrier is required to avoid groundwater mounding behind the barrier.	Barrier walls are a proven technology for seepage control and/or groundwater cutoff at impoundments. Slurry walls are limited by the depth of installation, which is approximately 90 ft below ground surface. However, site-specific geologic and technology-specific considerations may limit this depth to shallower installations. Additional subsurface investigations, aquifer testing, and compatibility testing with site-specific groundwater will be needed.	Generally reliable as a barrier to groundwater flow; however, treatment of downgradient groundwater is incidental and not the primary objective.

TABLE 1
Evaluation of Remedial Technologies
 Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
 Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Ease of Implementation	Potential Impacts	Time Requirement to Begin/Complete
Geochemical Approaches (in situ injection)	Moderate. Installation of injection well network or other injection infrastructure would be required. Alternative installation approaches may be considered, such as along the downgradient edge of impacted groundwater, which would function similar to a PRB application. Potential for clogging of aquifer matrix and/or injection well infrastructure. Chemical distribution during injections (i.e., radius of influence) needs to be evaluated.	Minimal impacts are expected if remedy works as designed, based on a thorough pre-design investigation, geochemical modeling, and bench/pilot study results. Redox-altering processes have the potential to mobilize naturally-occurring constituents as an unintended consequence if not properly studied and implemented.	Installation of the injection network can be accomplished relatively quickly (1 to 2 months). However, a thorough pre-design investigation, geochemical modeling, and/or bench- and/or pilot-testing will be required to obtain design parameters prior to design and construction of the corrective measure, which may take up to 24 months. Once installed, the time required to achieve GWPS within the treatment area may be relatively quick but depends on the attenuation process kinetics of each targeted constituent. The time for complete distribution of the injected materials throughout the treatment area is also variable.
Hydraulic Containment (pump- and-treat)	Moderate. Proven approach, and supplemental installation of extraction wells/trenches is fairly straightforward. The extracted groundwater may potentially require an above-ground treatment system. A variety of sorption and precipitation approaches exist for ex-situ treatment of As, Be, Co, Li and Se. Operation and maintenance (O&M) requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals.	Moderate. The main potential impacts are related to the presence and operation of an on-site above-ground water treatment facility and related infrastructure to convey and treat extracted groundwater. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone.	Installation of extraction wells and/or trenches can be accomplished relatively quickly (1 to 2 months). However, additional aquifer testing, system design and installation, and permit approval may be required, which may take up to 24 months. The initiation of the approach would be contingent on the start-up of the wastewater treatment infrastructure. Hydraulic containment can be achieved relatively quickly after startup of the extraction system, but uncertainty exists with respect to the time to achieve GWPS without additional data collection to better understand attenuation mechanisms for As, Be, Co, Li and Se.
Monitored Natural Attenuation (MNA)	Reasonably implementable with respect to infrastructure, but moderate to complex with respect to documentation. Proven approach, but additional data are needed to show that the existing attenuation capacity is sufficient to meet site objectives within a reasonable timeframe. A monitoring well network already exists to implement future groundwater monitoring efforts.	None. MNA relies on the natural processes active in the aquifer matrix to reduce constituent concentrations without disturbing the surface or the subsurface.	The infrastructure to initiate MNA is already in place. Demonstrating attenuation mechanisms and capacity can be time-consuming and can take up to 24 months. MNA is expected to be successful within a reasonable time frame following pond closure. Engineering measures will be implemented during closure of AP-2 & 3/4 to minimize potential impacts to the subsurface during closure activities and routine groundwater monitoring will be used to verify that groundwater impacts remain stable or decrease over time.
In-Situ Solidification / Stabilization (ISS)	Easy to moderate, implementation of ISS will require a detailed design effort with bench scale testing to determine the appropriate amendment mix for a variety of overburden geologic materials. Pilot testing will also be needed to verify the ability of equipment to solidify material at depth. ISS has not been commonly used to stabilize entire ash units as part of a closure strategy.	Potential impacts of the remedy will be negligible.	In-situ stabilization of AP-2 & 3/4 is predicted to take a number of years to complete, depending on the availability of specialized contractors and equipment.
Permeable Reactive Barrier (PRB)	Moderate to difficult. Trenching would be required to install a mix of reactive materials in the subsurface. Continuous trenching may be the most feasible construction method. Installation methods and materials are readily available. Once installed, treatment will be passive and O&M requirements are minimal if replacement of the PRB is not necessary.	Minimal impacts are expected following the construction of the remedy. However, ZVI has the potential to create anaerobic conditions downgradient of the PRB wall that may mobilize redox-sensitive naturally-occurring constituents. These conditions need to be carefully monitored. Short-term impacts during the construction of	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.

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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
		the remedy can be mitigated through appropriate planning and health and safety measures.	
Phyto Remediation (TreeWell®)	Reasonably implementable to moderate. Engineered approach has been proven effective, and specific depth zones can be targeted. Trees are installed as "tree wells" in a large diameter boring to get the roots deep enough to intercept impacted groundwater flow paths. Area must be clear of above and below-ground structures (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 for optimal placement of the TreeWell® units, which may take up to 6 months. Depending on the number of required units, the installation effort is expected to last several weeks. Hydraulic capture/control is expected approximately three years after planting and system performance is expected to further improve over time.
Subsurface Vertical Barrier Walls	Moderate to difficult. Trenching will be required to fill in the various slurry mixes; alternatively, sheet pile installations can be accomplished without excavation of trenches. The application of barrier walls is limited by the depth of installation, 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.

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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)			Retention Evaluation
	Institutional Requirements	Other Env. Or Public Health Requirements	Relative Costs	
Geochemical Approaches (in situ injection)	Deed restrictions may be necessary until in-situ treatment has achieved GWPS. A new underground injection control (UIC) permit (for in-situ injections) would be required to implement this corrective measure. No other institutional requirements are expected at this time.	None expected at this point. Potential for mobilization of redox-sensitive constituents exists during implementation of an anerobic attenuation approach. Following installation, the remedy is passive.	Medium (depending on expanse of injection network required and injectate volume required per derived design parameters)	Retained for further analysis; can be applied to As, Be, Co, and Se as a sparingly-soluble mineral, or could be applied to raise the groundwater pH to promote immobilization through sorption mechanisms. Additional evaluation required to determine likelihood to treat Li.
Hydraulic Containment (pump- and-treat)	Depending on the effluent management strategy, modifications to the existing NPDES permit may be required, or obtaining a new underground injection control (UIC) permit may be needed if groundwater reinjection is chosen. In addition, deed restrictions may be required as long as groundwater conditions are above regulatory standards for unrestricted use.	Above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high (depending on remedy duration, complexity of above-ground treatment system, and volume of water processed)	Retained for further analysis; extracted water could be routed to wastewater treatment infrastructure built for dewatering and closure of ponds at the site. Could be considered an effective measure to maintain hydraulic control.
Monitored Natural Attenuation (MNA)	MNA may require the implementation of institutional controls, such as deed restrictions, to preclude potential exposure to groundwater within the footprint of impacted groundwater until GWPS are achieved.	Little to no physical disruption to remediation areas and no adverse construction-related impacts are expected on the surrounding community.	Low to medium	Retained for further analysis; may be used as a stand-alone corrective measure or in conjunction with other potential groundwater corrective measures.
In-Situ Solidification / Stabilization	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	Retained for further analysis. Reliant on the final closure schedule and construction for AP-2 and 3/4. This option may not be implemented until construction progresses.
Permeable Reactive Barrier (PRB)	Deed restrictions may be necessary for groundwater areas upgradient of the PRB (if not installed along the waste boundary). No other institutional requirements are expected at this time.	None expected at this point. Following installation, the remedy is passive. However, certain treatment media (such as ZVI) have the potential to mobilize naturally-occurring constituents downgradient of the PRB.	Medium to high (for installation) - minimal O&M requirements if replacement is not necessary	Not retained for further analysis; a PRB cannot treat groundwater downgradient of the constructable alignment; there is minimal space available downgradient of the impacted wells; potential for increased maintenance due to potential biofouling and mineral precipitation. Further, construction of a PRB is likely to impede or restrict restoration of natural groundwater flow across AP-3/4.

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	
Phyto Remediation (TreeWell®)	Deed restrictions may be necessary for groundwater areas upgradient of the TreeWell® system. No other 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	Retained for further analysis; feasible through targeted placement of TreeWell® units downgradient of AP-234; may require combination with other potential corrective measures; could be effective for hydraulic control.
Subsurface Vertical Barrier Walls	Deed restrictions may be necessary for groundwater areas downgradient of the barrier wall until remedial goals are met. No other institutional requirements are expected at this time.	Due to the need for groundwater extraction associated with barrier walls, above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high (depending on length and depth of wall, remedy duration and complexity of above-ground treatment system)	Not retained for further analysis. A SVBW cannot treat groundwater downgradient of the constructable alignment; there is minimal space available downgradient of the impacted wells.

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-37	Downgradient	Overburden	1390482.2	2200919.8	766.21	763.7	39.7	734.4	724.4	10	11/28/2012
DGWC-38	Downgradient	Overburden	1390362.7	2201148.6	757.43	754.7	25.0	740.0	730.0	10	11/29/2012
DGWC-39	Downgradient	Overburden	1390303.6	2201540.1	759.89	757.0	21.2	746.2	736.2	10	11/6/2012
DGWC-40	Downgradient	Overburden	1390625.7	2201825.9	779.06	776.2	34.9	751.7	741.7	10	11/5/2012
DGWC-67	Downgradient	Overburden	1390953.8	2200830.7	766.70	767.0	56.3	720.7	710.7	10	3/14/2017
DGWC-68A	Downgradient	Overburden	1391301.2	2200734.9	765.33	765.4	29.8	746.0	736.0	10	4/20/2017
DGWC-69	Downgradient	Overburden	1391585.0	2200657.1	763.75	764.0	24.3	749.7	739.7	10	3/16/2017
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK											
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-100	Downgradient	Overburden	1390254.8	2202242.1	777.95	775.3	44.8	740.5	730.5	10	7/8/2020
B-105D	Downgradient	Upper Bedrock	1390634.5	2201831.9	779.01	776.0	70.00	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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 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-2	Downgradient	Overburden/Upper Bedrock	1393958.0	2202119.5	850.88	848.3	49.0	809.6	799.6	10	10/2/2012
DGWC-4	Downgradient	Overburden	1394171.5	2202662.4	814.85	812.1	45.0	777.4	767.4	10	10/3/2012
DGWC-5	Downgradient	Overburden/Upper Bedrock	1394306.3	2202965.1	791.75	788.7	30.0	769.0	759.0	10	10/4/2012
DGWC-8	Downgradient	Overburden	1394322.2	2203882.1	826.38	824.1	49.1	785.4	775.4	10	10/10/2012
DGWC-9	Downgradient	Overburden	1394055.9	2204170.0	824.35	821.8	30.0	802.2	792.2	10	10/10/2012
DGWC-10	Downgradient	Overburden	1393818.3	2204201.1	823.55	820.9	45.4	785.9	775.9	10	10/11/2012
DGWC-11	Downgradient	Overburden	1393547.1	2204166.2	800.57	798.1	49.1	759.3	749.3	10	10/15/2012
DGWC-12	Downgradient	Overburden	1393149.4	2204128.3	773.86	771.2	25.1	756.5	746.5	10	10/15/2012
DGWC-13	Downgradient	Overburden	1392881.1	2204084.6	794.10	791.3	43.8	757.9	747.9	10	11/29/2012
DGWC-14	Downgradient	Overburden/Upper Bedrock	1392574.2	2204013.3	792.40	789.8	34.3	765.9	755.9	10	12/18/2012
DGWC-15	Downgradient	Overburden	1392544.1	2203679.0	824.50	821.5	67.1	764.8	754.8	10	11/29/2012
DGWC-17	Downgradient	Overburden	1392645.6	2203051.0	837.05	834.2	44.5	800.0	790.0	10	1/9/2013
DGWC-19	Downgradient	Overburden	1392342.6	2202601.0	825.46	822.9	39.8	793.5	783.5	10	3/12/2013
DGWC-20	Downgradient	Overburden	1392164.5	2202315.6	822.14	819.8	39.7	790.7	780.7	10	3/5/2013
DGWC-21	Downgradient	Overburden/Upper Bedrock	1392067.5	2202063.5	816.28	813.5	69.0	754.9	744.9	10	10/31/2012
DGWC-22	Downgradient	Upper Bedrock	1392126.3	2201791.9	816.59	813.7	60.0	764.0	754.0	10	10/25/2012
DGWC-23	Downgradient	Upper Bedrock	1392239.7	2201582.0	818.37	815.7	60.1	765.9	755.9	10	10/25/2012
DGWC-42	Downgradient	Overburden	1391327.8	2201870.2	804.68	802.0	50.4	762.1	752.1	10	11/12/2012
DGWC-47	Downgradient	Overburden/Upper Bedrock	1391553.8	2202610.5	797.45	794.3	28.8	775.9	765.9	10	6/23/2016
DGWC-48	Downgradient	Overburden/Upper Bedrock	1391314.6	2202290.2	788.33	785.2	30.0	765.6	755.6	10	6/22/2016

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 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK											
B-56	Downgradient	Overburden	1393957.9	2204187.8	823.59	821.0	45.0	786.4	776.4	10	10/3/2016
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-63	Downgradient	Overburden	1390999.1	2202978.1	777.10	777.3	46.0	741.8	731.8	10	10/6/2016
B-66	Downgradient	Overburden	1393858.2	2204277.5	815.90	813.3	55.3	768.3	758.3	10	11/16/2016
B-77	Downgradient	Overburden	1390948.7	2202942.0	776.86	777.1	42	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

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-3	Downgradient	Overburden/Upper Bedrock	1394045.1	2202411.5	837.78	835.0	37.0	808.3	798.3	10	10/3/2012
B-6	Downgradient	Overburden	1394419.5	2203266.5	789.47	786.5	35.4	761.5	751.5	10	10/9/2012
B-7	Downgradient	Overburden	1394374.6	2203596.1	809.16	806.1	25.2	791.3	781.3	10	10/9/2012
B-16	Downgradient	Overburden	1392595.1	2203315.4	826.47	823.6	43.7	790.2	780.2	10	12/19/2012
B-18	Downgradient	Overburden	1392521.0	2202875.5	826.56	823.9	32.6	801.5	791.5	10	1/10/2013
B-24	Downgradient	Upper Bedrock	1392479.9	2201450.0	822.11	819.3	79.1	751.0	741.0	10	10/24/2012
B-25	Downgradient	Upper Bedrock	1392813.3	2201502.7	836.54	833.5	54.8	789.1	779.1	10	10/24/2012
B-26	Downgradient	Upper Bedrock	1393105.6	2201550.4	853.60	850.6	49.3	811.7	801.7	10	10/23/2012
B-28	Downgradient	Overburden/Upper Bedrock	1391967.4	2201679.2	816.08	813.3	69.4	754.3	744.3	10	10/31/2012
B-29	Downgradient	Overburden	1391890.0	2201422.0	816.43	813.5	54.4	769.4	759.4	10	1/11/2013
B-31	Downgradient	Upper Bedrock	1392034.3	2200928.5	797.47	794.9	45.1	760.2	750.2	10	1/22/2013
B-41	Downgradient	Overburden	1390920.8	2201751.9	795.20	792.4	60.0	743.0	733.0	10	11/14/2012
B-50	Downgradient	Overburden	1391657.1	2201841.0	809.67	809.2	36.0	784.4	774.4	10	6/24/2016
B-51	Downgradient	Overburden	1390501.2	2200906.5	765.92	763.3	65.0	708.3	698.3	10	6/27/2016
B-52	Downgradient	Overburden	1392308.3	2201314.8	822.89	820.3	50.0	781.4	771.4	10	9/28/2016
B-54	Downgradient	Overburden/Upper Bedrock	1394423.5	2203140.7	785.46	782.6	34.2	758.8	748.8	10	9/26/2016
B-55	Downgradient	Overburden	1394142.6	2204147.9	825.12	822.9	52.0	781.9	771.9	10	9/22/2016
B-56	Downgradient	Overburden	1393957.9	2204187.8	823.59	821.0	45.0	786.4	776.4	10	10/3/2016
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-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-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
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-90	Downgradient	Overburden	1394501.0	2203212.6	784.00	784.2	33.4	760.8	750.8	10	12/10/2019
B-91	Downgradient	Overburden	1394447.1	2203123.9	782.98	783.1	34.6	758.5	748.5	10	12/11/2019
B-94	Downgradient	Overburden	1394402.0	2203513.7	801.74	799.2	45.24	764.6	754.6	10	1/23/2020
B-95	Downgradient	Overburden	1394518.6	2203167.7	784.00	784.3	33.3	761.3	751.3	10	2/11/2020
B-96	Downgradient	Overburden	1394478.7	2203099.3	784.92	785.3	33.1	762.2	752.2	10	2/10/2020
B-99	Downgradient	Overburden	1394524.2	2203084.5	782.39	782.6	12.3	775.3	770.3	5	7/7/2020
B-103D	Downgradient	Upper Bedrock	1391543.5	2202614.4	795.96	793.8	70.00	733.8	723.8	10	10/15/2020

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-110D	Downgradient	Upper Bedrock	1391294.4	2200736.0	764.61	764.7	65.00	711.7	701.7	10	11/17/2020
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

Notes:

1. bgs = below ground surface
2. DGWC-68 and DGWA-70 are not used as monitoring well due to well replacement and modifications to the proposed well network. DGWA-70 was abandoned 5/1/2017.
2. Coordinate System: NAD 1983 State Plane Georgia West (U.S. feet)
3. NAD - North American Datum; NAVD - North American Vertical Datum

TABLE 3
SUMMARY OF AQUIFER (SLUG) TEST DATA
 Georgia Power Company - Plant McDonough
 Atlanta, Georgia

Piezometer ID	Hydrogeologic Unit Screened	Saturated Aquifer Thickness (feet)	Screen Length (feet)	Aquifer Test Type	Hydraulic Conductivity (cm/sec)
B-111D	Gneiss	100	10	Falling	2.21E-04
				Rising	2.07E-04
B-112D	Gneiss	100	10	Falling	6.75E-04
				Falling	9.58E-04
B-113D	Gneiss	100	10	Rising	1.09E-04
				Falling	7.34E-04
				Rising	7.89E-04
B-115D	Schist	100	10	Falling	6.83E-05
				Rising	4.83E-05
B-116D	Schist	100	10	Falling	4.14E-04
				Rising	4.06E-04
B-117D	Gneiss	100	10	Falling	2.49E-04
				Rising	6.40E-05
B-118	Gneiss	100	10	Falling	4.20E-04
				Rising	7.96E-04
B-119D	Gneiss	100	10	Falling	5.66E-05
				Rising	1.42E-05
B-120D	Gneiss	100	10	Falling	1.50E-02
				Rising	1.51E-02
				Falling	9.58E-03
				Rising	1.76E-02

NOTES:

1. cm/sec = centimeters per second

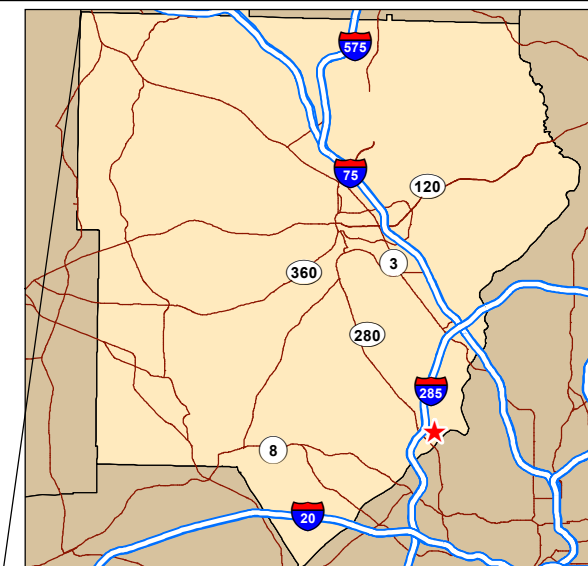
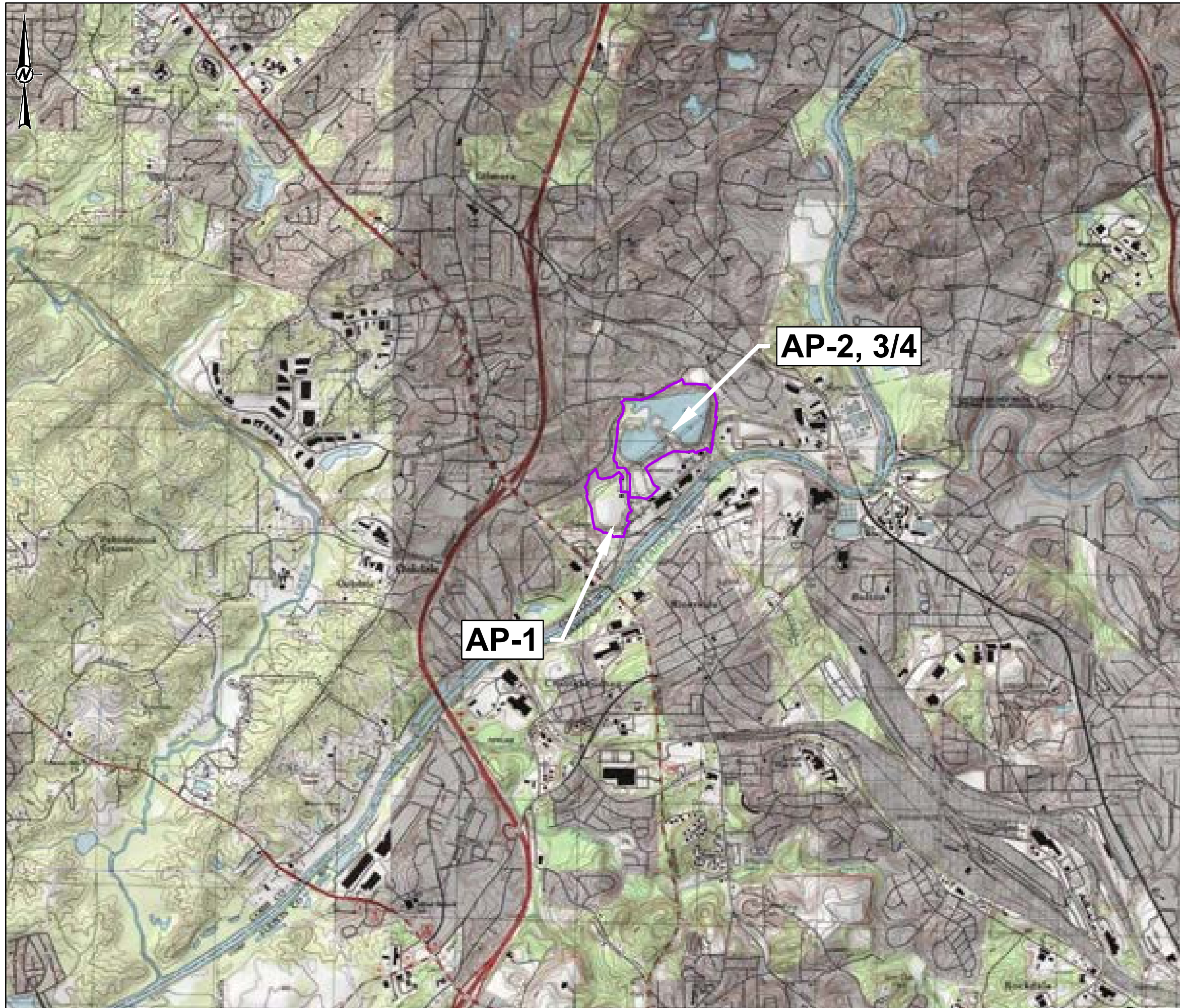
TABLE 4
Proposed ACM Supplemental Data Collection Tasks for July through December 2021
 Georgia Power – Plant McDonough-Atkinson AP-2 and 3/4
 Atlanta, Georgia

Data Collection Event	Applicable CMs	Applicability / Rationale	Field Component	Parameters of Interest (POI)
Well Installation	ISI P&T MNA	Nature and Extent: Install vertical delineation wells both upgradient and downgradient of AP-2 and 3/4.	Install wells to total well depths ranging approximately from 40 to 80 feet below ground surface, screened at least 20-feet below the bottom of adjacent screened interval.	Vertical delineation
Groundwater Sampling	ISI MNA Phyto	Evaluation of: (i) attenuation mechanisms and rates and aquifer capacity for attenuation (ii) in situ conditions to establish evaluate PRB options and phytoremediation measures downgradient of unit	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: orthophosphate, phosphorous, sulfide, iron, manganese, magnesium, sodium, potassium, total alkalinity, bicarbonate, dissolved organic carbon (DOC), nitrate/nitrite.
Evaluation of the analytical results from specialized analysis of collected saturated unconsolidated aquifer matrix samples	ISI P&T MNA	Evaluation of aquifer matrix for: (i) attenuation mechanisms and rates, and aquifer capacity for attenuation; and (ii) mineralogical characterization.	No Field Component: Aquifer matrix samples collected and submitted to the lab in November 2019.	Conceptually identify attenuation rates and aquifer capacity for As, Be, Co, Li and Se. Evaluate long term stability of attenuation.
Evaluate groundwater flow following closure/consolidation of AP-3/4 and the lowering of the dike.	MNA	Evaluation of groundwater flow post closure and post dewatering. Determine the affect on groundwater flow from lowering the dike.	Field component is comprised of semi-annual site wide water level monitoring concurrent with sampling events.	Evaluate long term groundwater flow rate and direction as closure construction is substantially complete.

Applicable Corrective Measures (CM):

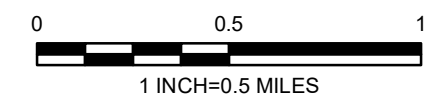
- ISI - Geochemical Approaches (In-Situ Injection) **(RETAINED)**
- P&T - Hydraulic Containment (Pump and Treat) **(RETAINED)**
- ISS – Insitu Solidification/Stabilization **(NOT RETAINED)**
- MNA - Monitored Natural Attenuation **(RETAINED)**
- PRB - Permeable Reactive Barrier **(NOT RETAINED)**
- Phytoremediation (TreeWells®) **(RETAINED)**
- SVBW - Subsurface Vertical Barrier Walls **(NOT RETAINED)**

FIGURES



REFERENCE

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CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH-ATKINSON



PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON

TITLE
SITE LOCATION MAP

CONSULTANT	YYYY-MM-DD	2019-1-31
 GOLDER MEMBER OF WSP	PREPARED	SEB
	DESIGN	SEB
	CHECKED	DP
	REVIEWED/APPROVED	RPK

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

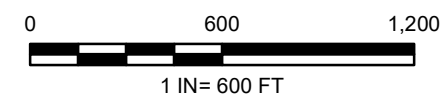


- LEGEND**
- AP-1 MONITORING WELL
 - PIEZOMETER
 - AP-2,3/4 MONITORING WELL
 - UPGRADIENT WELL
 - SURFACE WATER MONITORING LOCATION
 - DEWATERING WELL
 - STAFF GAUGE
 - PROPERTY BOUNDARY
 - PERMIT BOUNDARY

NOTES
 1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE

REFERENCE

1. SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND MARCH 09, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS SURVEYED BY METRO ENGINEERING 08/10/2020.



CLIENT
 GEORGIA POWER COMPANY PLANT
 MCDONOUGH-ATKINSON



PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON

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

CONSULTANT	YYYY-MM-DD	2021-02-03
	PREPARED	DJC
	DESIGN	BAS
	CHECKED	DP
	REVIEWED/APPROVED	RPK

PROJECT No. 166849621 Rev. 0

Path: C:\Users\labrad\OneDrive\Documents\166849621_SCS_PlantMcDonough_GW_Cons_Svc_GA - 800_Shapefile\MXD\Remedy_Selection_Work_Plan\Figure 2 - Proposed Investigation Location Map.mxd

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



- LEGEND**
- ◆ AP-1 MONITORING WELL
 - ⊕ PIEZOMETER
 - ◆ AP-2,3/4 MONITORING WELL
 - ◆ UPGRADIENT WELL
 - ⊕ SURFACE WATER MONITORING LOCATION
 - ▲ DEWATERING WELL
 - ⊙ 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 MARCH 09, 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			
SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS			
REPORT PLANT MCDONOUGH-ATKINSON			
TITLE			
(INSET) MONITORING WELL, PIEZOMETER AND SURFACE WATER LOCATION MAP			
CONSULTANT		YYYY-MM-DD	7/28/2021
GOLDER MEMBER OF WSP		PREPARED	SEB
		DESIGN	DAH
		CHECKED	DLP
		REVIEW/APPROVED	RPK
PROJECT NO.	CONTROL	REV.	FIGURE
166849621		0	2B

THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM: ANS1.B



LEGEND

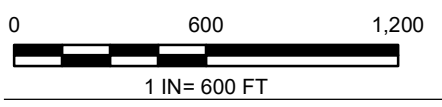
- PIEZOMETER
- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- DEWATERING WELL
- TEMPORARY DEWATERING WELLS
- VIBRATING WIRE PIEZOMETERS
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT-NAVD)
- SURFACE WATER STREAM
- PERMIT BOUNDARY
- PROPERTY BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED FEBRUARY 25, 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 MARCH 09, 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
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON

TITLE
SITE POTENTIOMETRIC MAP – FEBRUARY 25, 2021

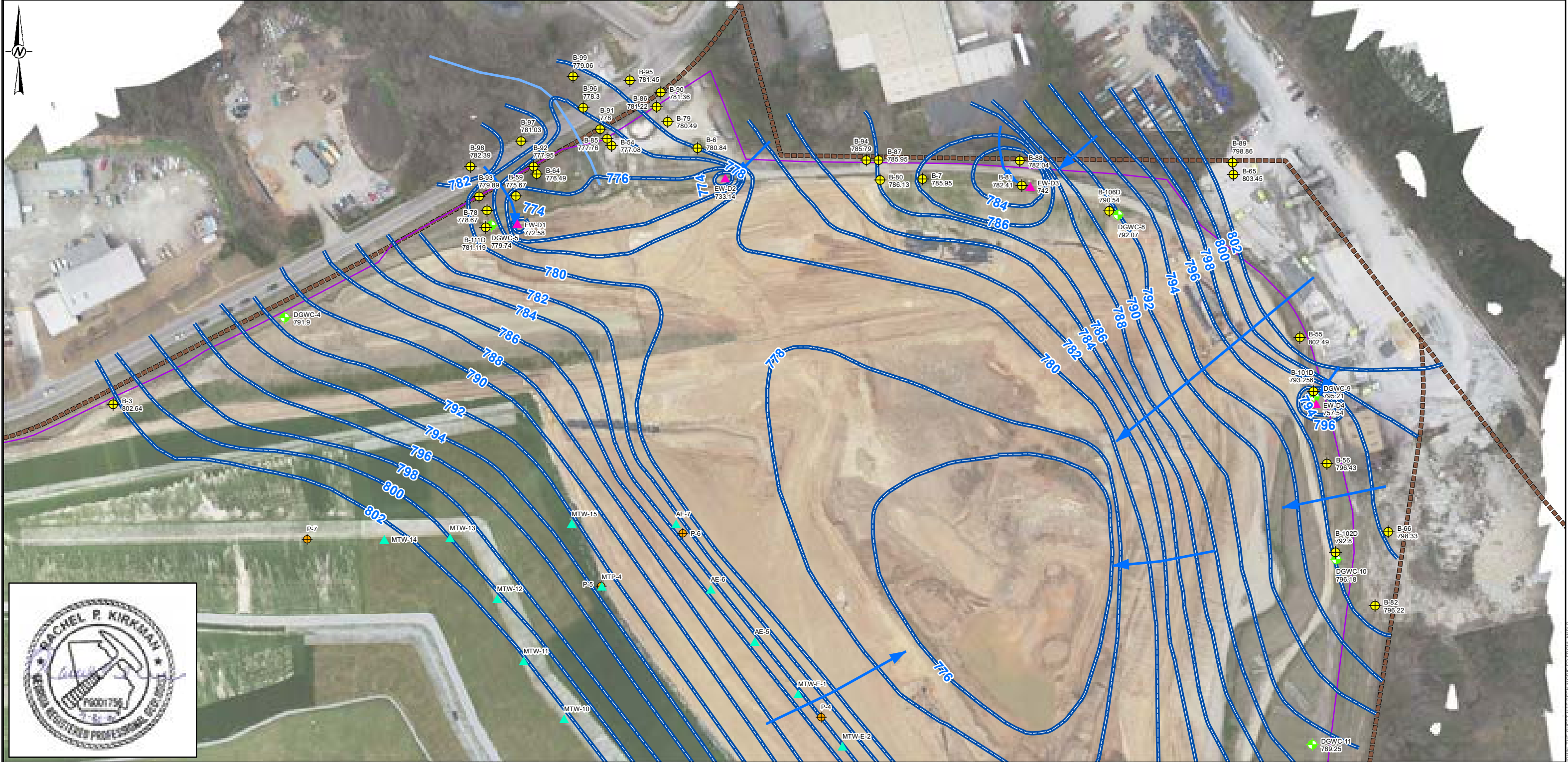
CONSULTANT	YYYY-MM-DD	2021-03-05
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

PROJECT No. 166849621 Rev. 0 FIGURE 3A



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



- LEGEND**
- PIEZOMETER
 - AP-1 MONITORING WELL
 - AP-2,3/4 MONITORING WELL
 - UPGRADIENT WELL
 - DEWATERING WELL
 - TEMPORARY DEWATERING WELLS
 - VIBRATING WIRE PIEZOMETERS
 - APPROXIMATE GROUNDWATER FLOW DIRECTION
 - GROUNDWATER SURFACE CONTOUR (FT-NAVD)
 - SURFACE WATER STREAM
 - PERMIT BOUNDARY
 - PROPERTY BOUNDARY

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
 2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED FEBRUARY 25, 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.
 5. DEWATERING WELLS GROUNDWATER ELEVATION DETERMINED USING TOPOGRAPHY.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND MARCH 09, 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



CLIENT
 GEORGIA POWER COMPANY
 PLANT MCDONOUGH-ATKINSON

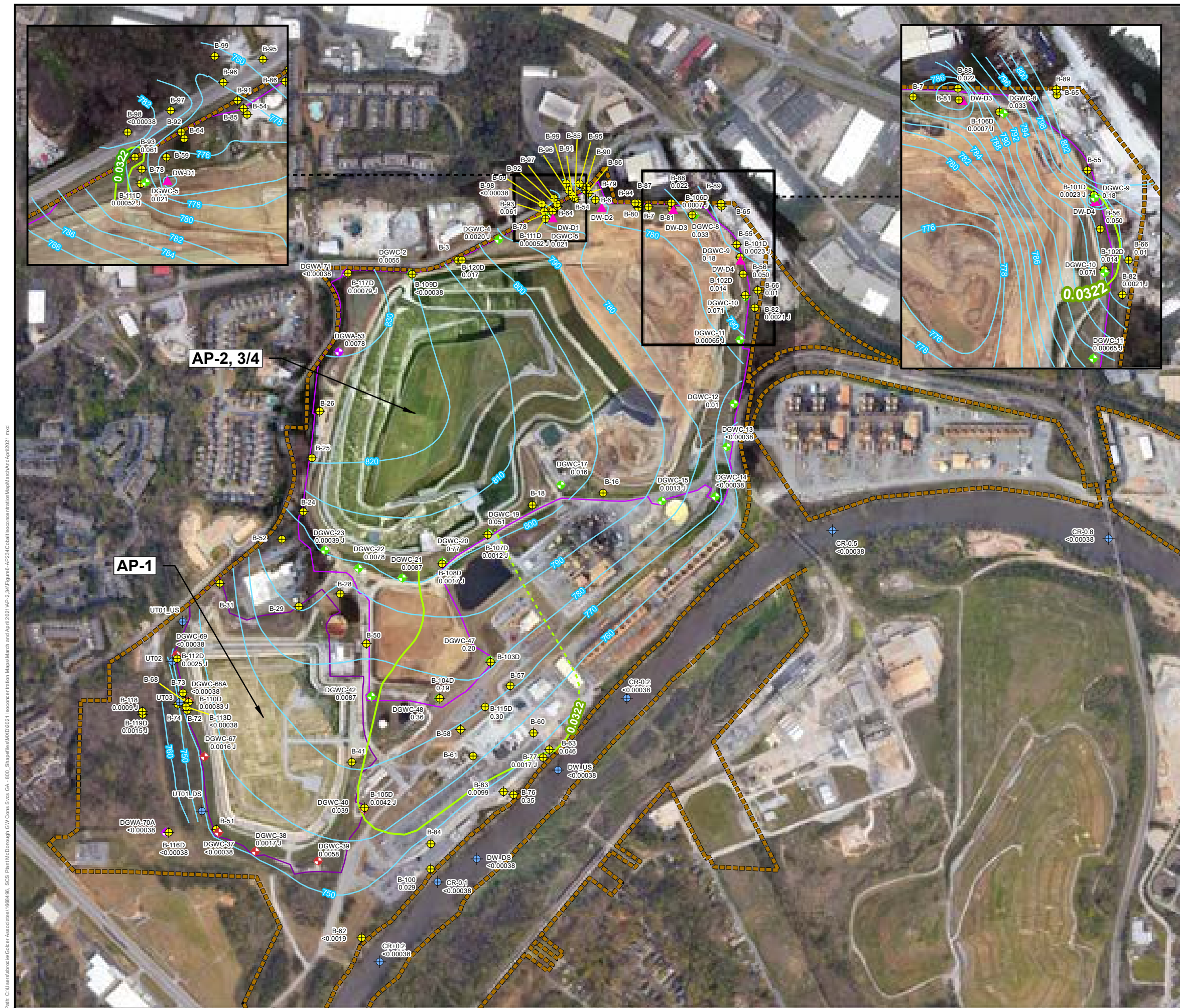
PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON

TITLE
(INSET) SITE POTENTIOMETRIC MAP – FEBRUARY 25, 2021

CONSULTANT	YYYY-MM-DD	7/28/2021
	PREPARED	SEB
	DESIGN	DAH
	CHECKED	DLP
	REVIEW/APPROVED	RPK

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

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



LEGEND

- PIEZOMETER
- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- SURFACE WATER MONITORING LOCATIONS
- DEWATERING WELL
- 0.0322 COBALT GWPS ISOCONCENTRATION CONTOUR
- COBALT GWPS ISOCONCENTRATION CONTOUR (INFERRED)
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (FEB 2021)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

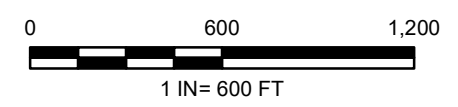
NOTES

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 MARCH AND APRIL 2021 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA. SURFACE WATER QUALITY DATA COLLECTED BY ARCADIS ON MARCH 9, 2021.
4. GWPS IS EQUAL TO SITE SPECIFIC BACKGROUND CONCENTRATION AS THERE IS NO MCL AND THE RSL IS BELOW SITE SPECIFIC BACKGROUND
5. TWO FOOT CONTOUR INTERVAL SPACING USED IN INSET MAPS AROUND AP-2, 3/4. CONTOUR INTERVAL ELEVATIONS SHOWN IN INSET MAPS.
6. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
7. B-76 IS AN OUTLIER AND NOT USED FOR CONTOURING.

Analyte	Units	GWPS
Cobalt	mg/L	0.0322

REFERENCE

1. SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND MARCH 09, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS SURVEYED BY METRO ENGINEERING



CLIENT
 GEORGIA POWER COMPANY PLANT
 MCDONOUGH-ATKINSON

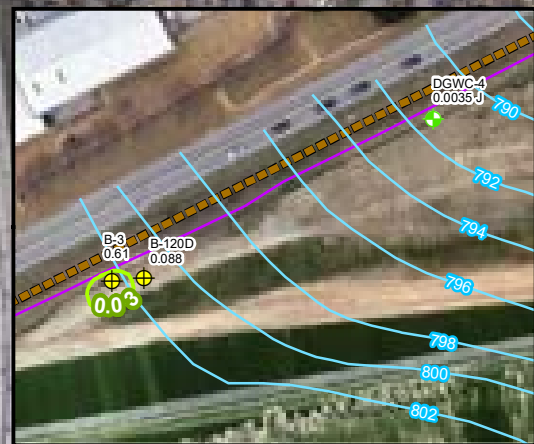
PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
**COBALT ISOCONCENTRATION CONTOUR MAP -
 MARCH AND APRIL 2021**

CONSULTANT	YYYY-MM-DD	2021-05-12
	PREPARED	SEB
	DESIGN	BAS
	CHECKED	DP
	REVIEWED/APPROVED	RPK

Path: C:\Users\abradford\Golder Associates\166849621_SCS_PlantMcDonough_GW_Cons_Svc_GA - 800_Shapefile\MDX2021_Isoconcentration_Map\March_and_April_2021\AP-2_34\Figure6-CobaltIsoconcentrationMap\MarchAndApril2021.mxd

Path: C:\Users\abradef\Golder\Associates\16684961_SCS_Plan\16684961_GW_Cons_Scs_GA_800_Shapefile\MDX\2021_Lithium\Isoconcentration\Map\MarchAndApril2021.mxd



AP-2, 3/4

AP-1

LEGEND

- PIEZOMETER
- AP-1 MONITORING WELL
- AP-2, 3/4 MONITORING WELL
- UPGRADIENT WELL
- SURFACE WATER MONITORING LOCATIONS
- DEWATERING WELL
- LITHIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (FEB 2021)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

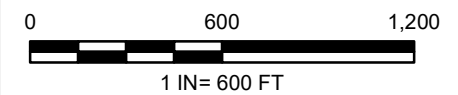
NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE MARCH AND APRIL 2021 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA. SURFACE WATER QUALITY DATA COLLECTED BY ARCADIS ON MARCH 9, 2021.
4. WHEN CONSIDERING THE REGIONAL SCREENING LEVEL (RSL), (0.04 MG/L) FOR LITHIUM FOLLOWING FEDERAL RULES, LITHIUM CONCENTRATIONS AT DGWC-2 WOULD NOT RESULT IN AN SSL.
5. TWO FOOT CONTOUR INTERVAL SPACING USED IN INSET MAPS AROUND AP-2, 3/4. CONTOUR INTERVAL ELEVATIONS SHOWN IN INSET MAPS.
6. DEEP WELLS NOT USED FOR CONTOURING. 103-D WAS DRY NO SAMPLE COLLECTED.

Analyte	Units	FED GWPS	STATE GWPS
Lithium	mg/L	0.04	0.03

REFERENCE

1. SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND MARCH 09, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS SURVEYED BY METRO ENGINEERING



CLIENT
GEORGIA POWER COMPANY PLANT
 MCDONOUGH-ATKINSON



PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
**LITHIUM ISOCONCENTRATION CONTOUR MAP -
 MARCH AND APRIL 2021**

CONSULTANT	DATE	REVISION
	YYYY-MM-DD	2021-05-12
	PREPARED	SEB
	DESIGN	BAS
	CHECKED	DP
	REVIEWED/APPROVED	RPK

PROJECT No. 166849621 Rev. 0 FIGURE 7

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



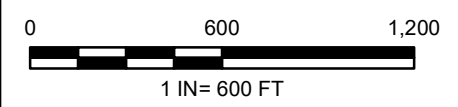
LEGEND

- PIEZOMETER
- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- SURFACE WATER MONITORING LOCATIONS
- DEWATERING WELL
- 0.05 SELENIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (FEB 2021)
- 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 MARCH AND APRIL 2021 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA. SURFACE WATER QUALITY DATA COLLECTED BY ARCADIS ON MARCH 9, 2021.
 - TWO FOOT CONTOUR INTERVAL SPACING USED IN INSET MAPS AROUND AP-2, 3/4. CONTOUR INTERVAL ELEVATIONS SHOWN IN INSET MAPS.
 - DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.

Analyte	Units	GWPS
Selenium	mg/L	0.05

- REFERENCE**
- SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND MARCH 09, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
 - COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
 - MONITORING WELL/PIEZOMETER LOCATIONS SURVEYED BY METRO ENGINEERING 8/10/2020.



CLIENT
GEORGIA POWER COMPANY PLANT MCDONOUGH-ATKINSON

PROJECT
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4



TITLE
SELENIUM ISOCONCENTRATION CONTOUR MAP - MARCH AND APRIL 2021

CONSULTANT	YYYY-MM-DD	2021-05-12
	PREPARED	SEB
	DESIGN	BAS
	CHECKED	DP
	REVIEWED/APPROVED	RPK

PROJECT No. 166849621 Rev. 0 FIGURE 8

Path: C:\Users\abradford\OneDrive\Documents\166849621_SCS_PlantMcDonough_GW_Cons_Svc_GA - 800_Shapefiles\MXD\2021_Isoconcentration_Map\MarchAndApril2021.mxd

APPENDIX A

ANALYTICAL DATA 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

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

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

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
92532118001	B-104D 56.5-57'					
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	
92532118002	B-109D 92.5-93'					
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	
92532118003	B-111D 82-82.5'					
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
92532118003	B-111D 82-82.5'					
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	
92532118004	B-115D 70.9-71.4'					
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	
92532118005	B-116D 88-88.25'					
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
92532118005	B-116D 88-88.25'					
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	
92532118006	B-117D 67-67.5'					
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	
92532118007	B-119D 101-101.4'					
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
92532118007	B-119D 101-101.4'					
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	2.092 ± 0.499 (0.307) C:NA T:NA	pCi/g	05/06/21 15:24	13982-63-3	Ra
Radium-228	EPA 901.1	1.929 ± 0.628 (0.658) C:NA T:NA	pCi/g	05/06/21 15:24	15262-20-1	
Thorium-232	EPA 901.1	30.535 ± 97.930 (121.200) C:NA T:NA	pCi/g	05/06/21 15:24	7440-29-1	
Thorium-234	EPA 901.1	2.382 ± 5.443 (6.737) C:NA T:NA	pCi/g	05/06/21 15:24	15065-10-8	
Uranium-235	EPA 901.1	0.000 ± 0.963 (2.546) C:NA T:NA	pCi/g	05/06/21 15:24	15117-96-1	
Uranium-238	EPA 901.1	14.981 ± 18.556 (17.580) C:NA T:NA	pCi/g	05/06/21 15:24		

REPORT OF LABORATORY ANALYSIS

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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	1.062 ± 0.248 (0.149) C:NA T:NA	pCi/g	05/06/21 15:25	13982-63-3	Ra
Radium-228	EPA 901.1	1.612 ± 0.328 (0.257) C:NA T:NA	pCi/g	05/06/21 15:25	15262-20-1	
Thorium-232	EPA 901.1	0.000 ± 15.879 (35.880) C:NA T:NA	pCi/g	05/06/21 15:25	7440-29-1	
Thorium-234	EPA 901.1	1.868 ± 1.351 (1.678) C:NA T:NA	pCi/g	05/06/21 15:25	15065-10-8	
Uranium-235	EPA 901.1	0.000 ± 0.816 (1.401) C:NA T:NA	pCi/g	05/06/21 15:25	15117-96-1	
Uranium-238	EPA 901.1	5.079 ± 12.720 (14.300) 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	1.296 ± 0.310 (0.241) C:NA T:NA	pCi/g	05/06/21 15:56	13982-63-3	Ra
Radium-228	EPA 901.1	1.440 ± 0.518 (0.681) C:NA T:NA	pCi/g	05/06/21 15:56	15262-20-1	
Thorium-232	EPA 901.1	40.530 ± 63.887 (77.770) C:NA T:NA	pCi/g	05/06/21 15:56	7440-29-1	
Thorium-234	EPA 901.1	1.785 ± 3.710 (4.578) C:NA T:NA	pCi/g	05/06/21 15:56	15065-10-8	
Uranium-235	EPA 901.1	0.568 ± 1.526 (1.740) C:NA T:NA	pCi/g	05/06/21 15:56	15117-96-1	
Uranium-238	EPA 901.1	0.000 ± 5.574 (19.140) C:NA T:NA	pCi/g	05/06/21 15:56		

REPORT OF LABORATORY ANALYSIS

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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	1.518 ± 0.291 (0.260) C:NA T:NA	pCi/g	05/06/21 15:58	13982-63-3	Ra
Radium-228	EPA 901.1	2.297 ± 0.463 (0.292) C:NA T:NA	pCi/g	05/06/21 15:58	15262-20-1	
Thorium-232	EPA 901.1	25.865 ± 22.768 (36.310) C:NA T:NA	pCi/g	05/06/21 15:58	7440-29-1	
Thorium-234	EPA 901.1	0.831 ± 1.366 (2.265) C:NA T:NA	pCi/g	05/06/21 15:58	15065-10-8	
Uranium-235	EPA 901.1	0.161 ± 1.217 (1.528) C:NA T:NA	pCi/g	05/06/21 15:58	15117-96-1	
Uranium-238	EPA 901.1	0.922 ± 17.282 (19.570) 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	1.344 ± 0.346 (0.220) C:NA T:NA	pCi/g	05/06/21 16:34	13982-63-3	Ra
Radium-228	EPA 901.1	1.777 ± 0.536 (0.474) C:NA T:NA	pCi/g	05/06/21 16:34	15262-20-1	
Thorium-232	EPA 901.1	0.000 ± 33.838 (77.080) C:NA T:NA	pCi/g	05/06/21 16:34	7440-29-1	
Thorium-234	EPA 901.1	0.000 ± 1.927 (4.422) C:NA T:NA	pCi/g	05/06/21 16:34	15065-10-8	
Uranium-235	EPA 901.1	0.032 ± 1.441 (1.662) C:NA T:NA	pCi/g	05/06/21 16:34	15117-96-1	
Uranium-238	EPA 901.1	6.984 ± 15.413 (14.130) 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	1.297 ± 0.322 (0.173) C:NA T:NA	pCi/g	05/06/21 17:06	13982-63-3	Ra
Radium-228	EPA 901.1	1.431 ± 0.433 (0.200) C:NA T:NA	pCi/g	05/06/21 17:06	15262-20-1	
Thorium-232	EPA 901.1	0.000 ± 41.225 (100.100) C:NA T:NA	pCi/g	05/06/21 17:06	7440-29-1	
Thorium-234	EPA 901.1	0.000 ± 2.347 (5.994) C:NA T:NA	pCi/g	05/06/21 17:06	15065-10-8	
Uranium-235	EPA 901.1	0.845 ± 1.424 (1.634) C:NA T:NA	pCi/g	05/06/21 17:06	15117-96-1	
Uranium-238	EPA 901.1	0.295 ± 19.653 (18.960) 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	1.892 ± 0.320 (0.204) C:NA T:NA	pCi/g	05/06/21 16:35	13982-63-3	Ra
Radium-228	EPA 901.1	1.928 ± 0.421 (0.206) C:NA T:NA	pCi/g	05/06/21 16:35	15262-20-1	
Thorium-232	EPA 901.1	18.394 ± 35.121 (44.700) C:NA T:NA	pCi/g	05/06/21 16:35	7440-29-1	
Thorium-234	EPA 901.1	0.000 ± 1.622 (2.771) C:NA T:NA	pCi/g	05/06/21 16:35	15065-10-8	
Uranium-235	EPA 901.1	0.000 ± 0.575 (1.461) C:NA T:NA	pCi/g	05/06/21 16:35	15117-96-1	
Uranium-238	EPA 901.1	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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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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

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

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: *4/8/18*

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 COC?	<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: _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-Of-Custody is a legal document. All relevant fields must be completed accurately.

Requester Name: [Blank]	Requester Title: [Blank]	Requester Department: [Blank]	Requester Agency: [Blank]
Requester Contact: [Blank]	Requester Phone: [Blank]	Requester Email: [Blank]	Requester Address: [Blank]
Requester Case No: [Blank]	Requester Date: [Blank]	Requester Time: [Blank]	Requester Location: [Blank]

ITEM #	DESCRIPTION	DATE	TIME	INITIALS	LOCATION	ANALYSIS TEST	ANALYST	DATE	TIME	INITIALS	LOCATION	ANALYSIS TEST	ANALYST	DATE	TIME	INITIALS	LOCATION
1
2
3
4
5
6
7
8
9
10
11
12

TEST REPORT

TESTED ON: [Blank]

TESTED BY: [Blank]

TESTED AT: [Blank]

TESTED FOR: [Blank]

TESTED BY: [Blank]

TESTED AT: [Blank]

TESTED FOR: [Blank]

Gamma Spec Quality Control Sample Performance Assessment

Sample ID	Activity	Count	Standard Deviation	Count Rate	Standard Error
101	1000	1000	31.6	1000	31.6
102	1000	1000	31.6	1000	31.6
103	1000	1000	31.6	1000	31.6
104	1000	1000	31.6	1000	31.6
105	1000	1000	31.6	1000	31.6
106	1000	1000	31.6	1000	31.6
107	1000	1000	31.6	1000	31.6
108	1000	1000	31.6	1000	31.6
109	1000	1000	31.6	1000	31.6
110	1000	1000	31.6	1000	31.6

Sample ID	Activity	Count	Standard Deviation	Count Rate	Standard Error
111	1000	1000	31.6	1000	31.6
112	1000	1000	31.6	1000	31.6
113	1000	1000	31.6	1000	31.6
114	1000	1000	31.6	1000	31.6
115	1000	1000	31.6	1000	31.6

Sample ID	Activity	Count	Standard Deviation	Count Rate	Standard Error
116	1000	1000	31.6	1000	31.6
117	1000	1000	31.6	1000	31.6
118	1000	1000	31.6	1000	31.6
119	1000	1000	31.6	1000	31.6
120	1000	1000	31.6	1000	31.6

Sample ID	Activity	Count	Standard Deviation	Count Rate	Standard Error
121	1000	1000	31.6	1000	31.6
122	1000	1000	31.6	1000	31.6
123	1000	1000	31.6	1000	31.6
124	1000	1000	31.6	1000	31.6
125	1000	1000	31.6	1000	31.6

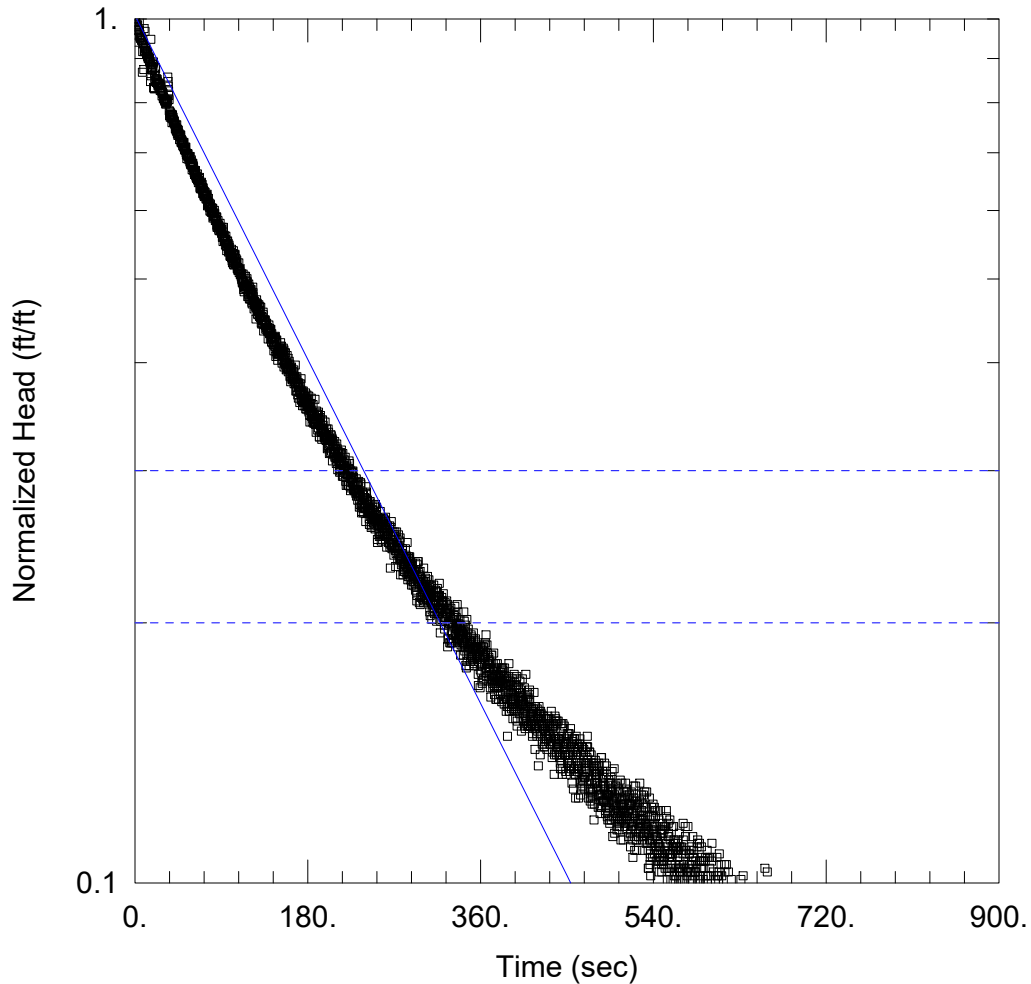
Sample ID	Activity	Count	Standard Deviation	Count Rate	Standard Error
126	1000	1000	31.6	1000	31.6
127	1000	1000	31.6	1000	31.6
128	1000	1000	31.6	1000	31.6
129	1000	1000	31.6	1000	31.6
130	1000	1000	31.6	1000	31.6

Gamma Spec Quality Control Sample Performance Assessment

Handwritten signature

APPENDIX B

SLUG TEST ANALYSES



B-111D TEST 1 SLUG IN

Data Set: C:\...\B-111D SLUG IN.aqt
 Date: 07/28/21

Time: 10:06:27

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-111D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 74.77 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-111D)

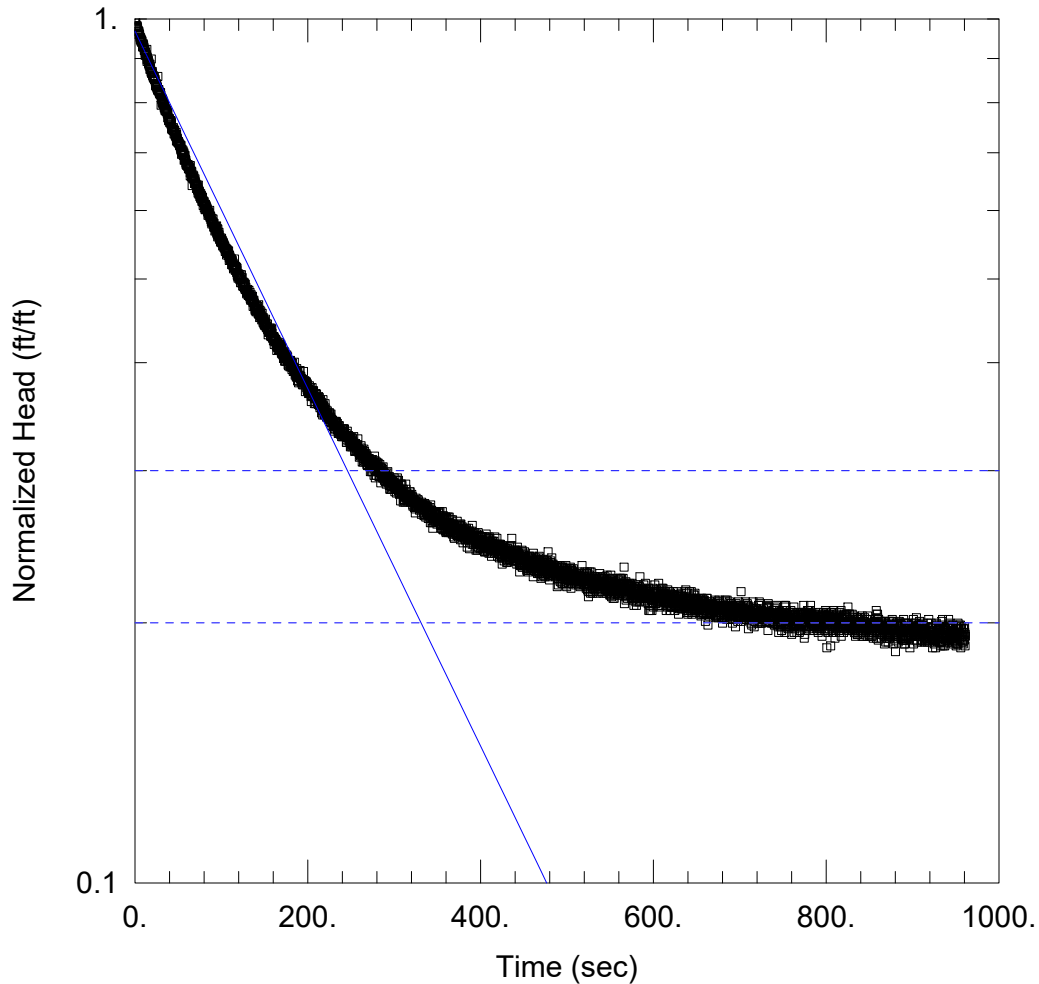
Initial Displacement: 0.981 ft
 Total Well Penetration Depth: 85. ft
 Casing Radius: 0.081 ft

Static Water Column Height: 74.77 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.0002209 cm/sec

Solution Method: Bouwer-Rice
 y0 = 0.9903 ft



B-111D TEST 1 SLUG OUT

Data Set: C:\...\B-111D SLUG OUT.aqt
 Date: 07/28/21

Time: 10:09:47

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-111D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 74.77 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-111D)

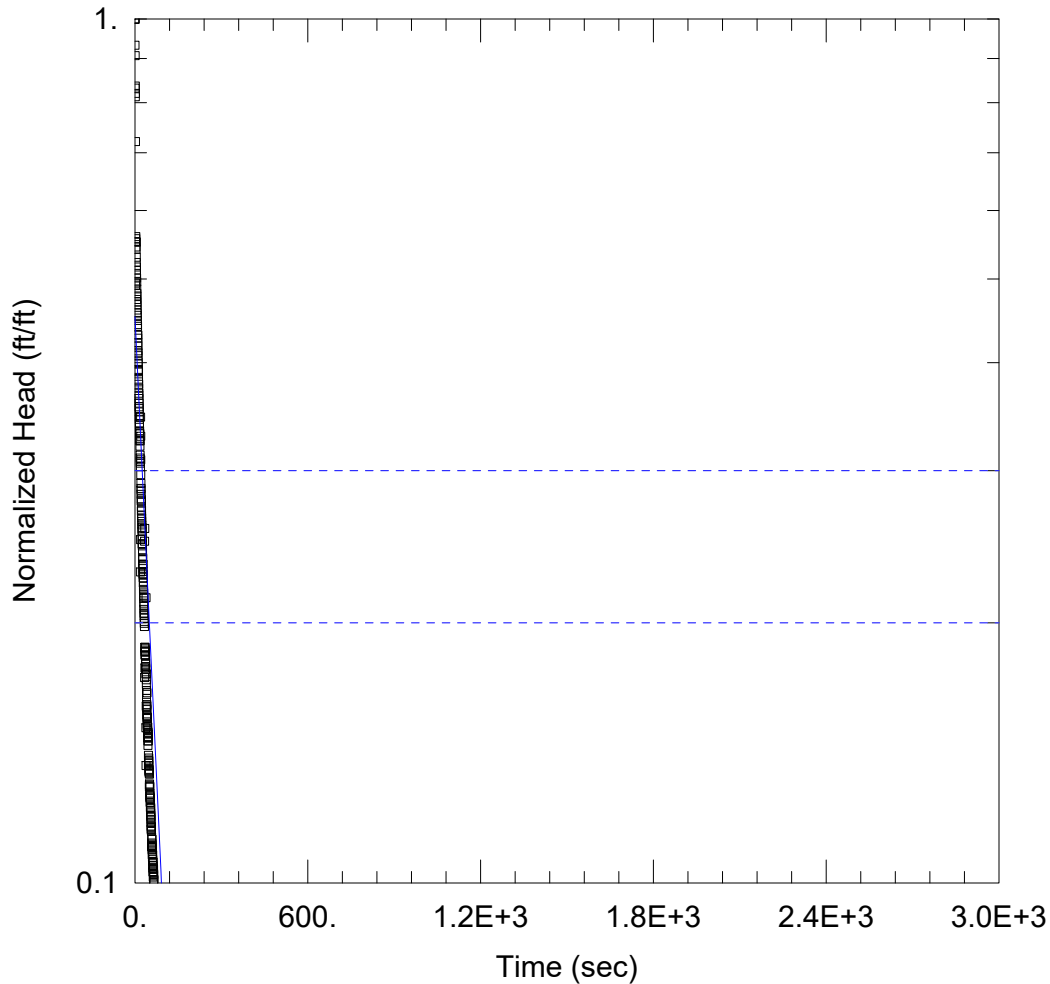
Initial Displacement: -1.026 ft
 Total Well Penetration Depth: 85. ft
 Casing Radius: 0.081 ft

Static Water Column Height: 74.77 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.0002066 cm/sec

Solution Method: Bouwer-Rice
 y0 = -0.9929 ft



B-112D TEST 1 SLUG IN

Data Set: C:\...\B-112D SLUG IN.aqt
 Date: 07/28/21

Time: 10:12:12

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-112D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 47.95 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-112D)

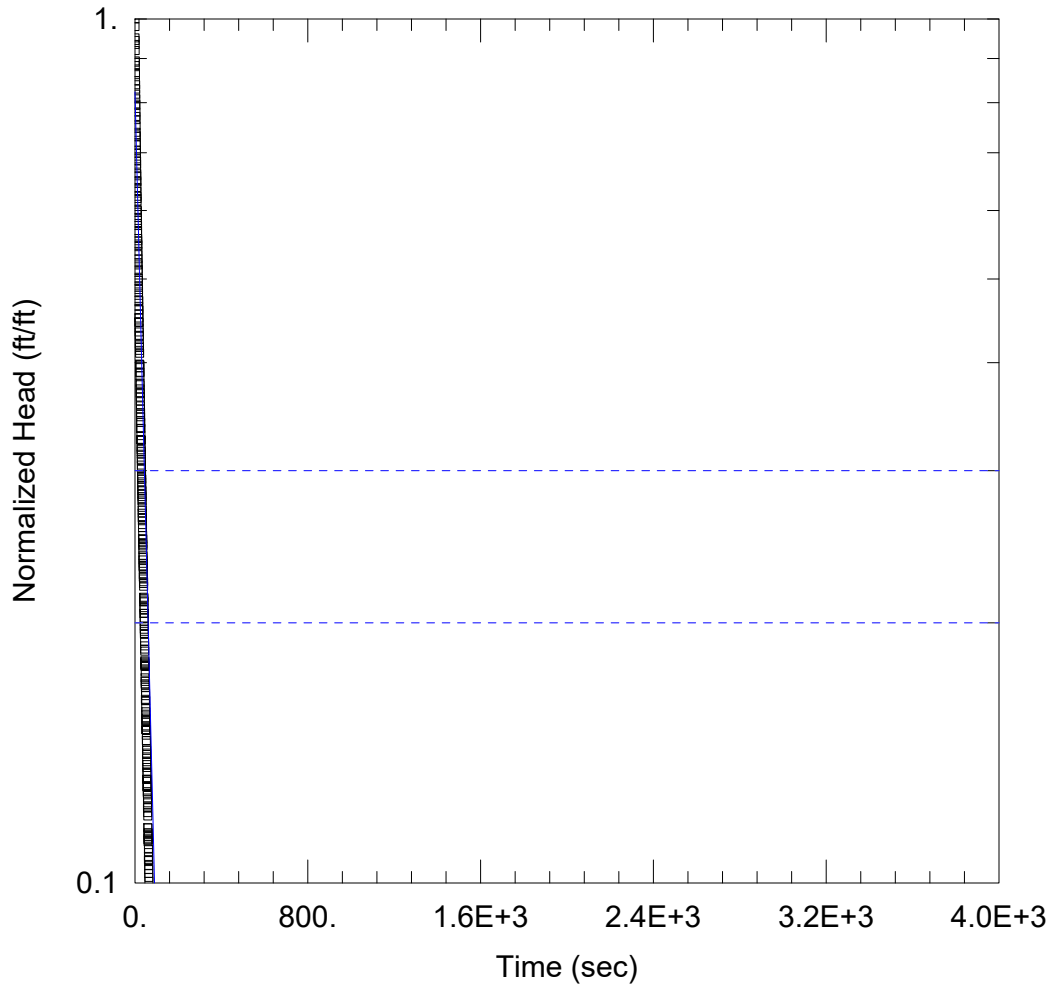
Initial Displacement: 2.904 ft
 Total Well Penetration Depth: 55. ft
 Casing Radius: 0.081 ft

Static Water Column Height: 47.95 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.0006745 cm/sec

Solution Method: Bouwer-Rice
 y0 = 1.313 ft



B-112D TEST 1 SLUG OUT

Data Set: C:\...\B-112D SLUG OUT.aqt

Date: 07/28/21

Time: 10:18:13

PROJECT INFORMATION

Company: Golder

Client: Southern Company

Project: 166849621

Location: McDonough

Test Well: B-112D

Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 47.95 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-112D)

Initial Displacement: -1.882 ft

Static Water Column Height: 47.95 ft

Total Well Penetration Depth: 55. ft

Screen Length: 10. ft

Casing Radius: 0.081 ft

Well Radius: 0.081 ft

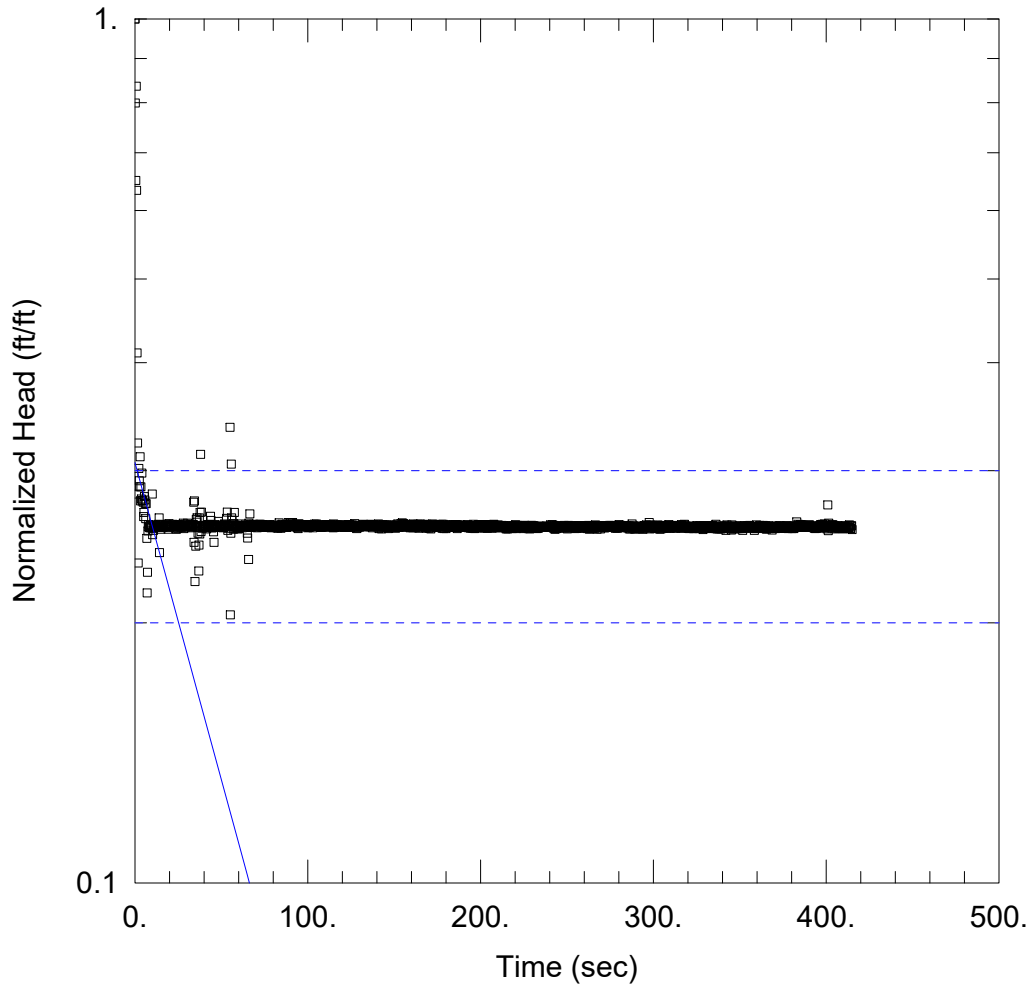
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.000958 cm/sec

y0 = -1.55 ft



B-113D TEST 2 SLUG IN

Data Set: C:\...\B-113D SLUG IN (2).aqt
 Date: 07/28/21

Time: 11:08:34

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-113D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 85.3 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-113D)

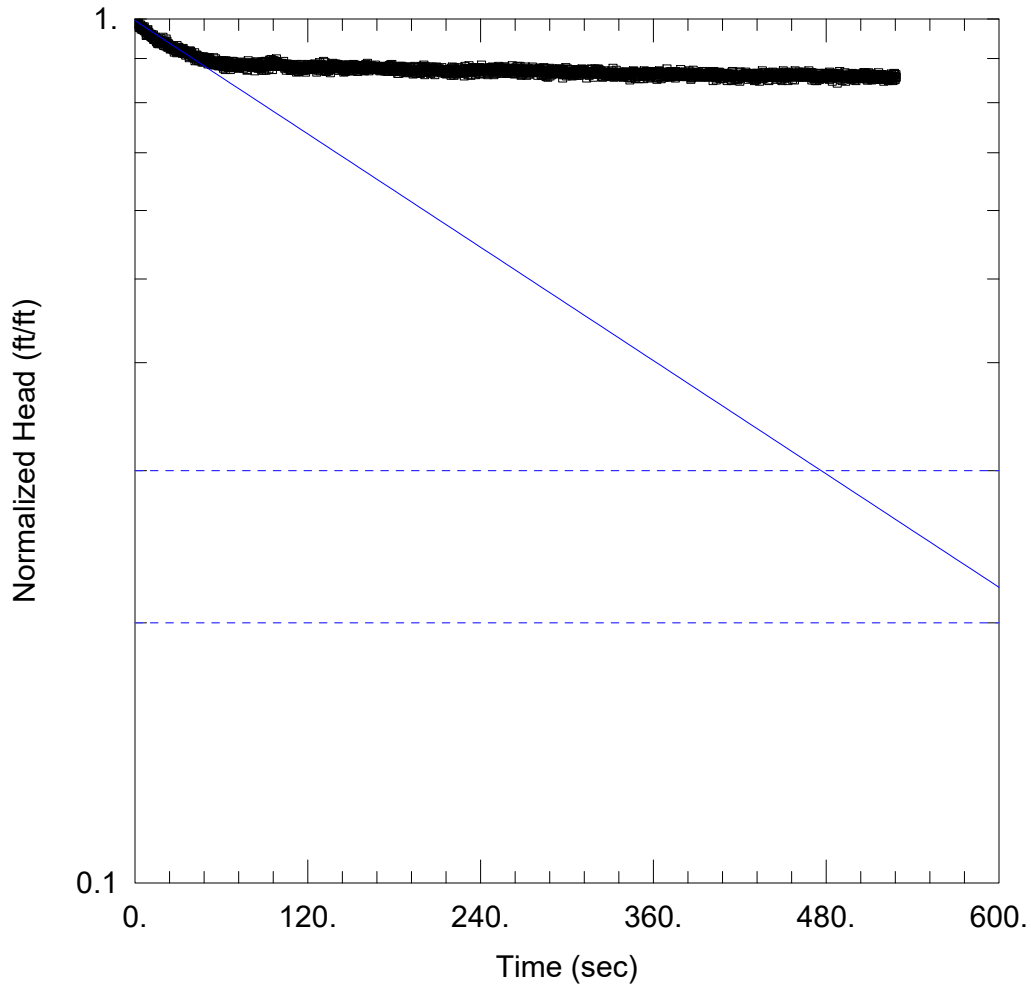
Initial Displacement: 4.072 ft
 Total Well Penetration Depth: 86. ft
 Casing Radius: 0.081 ft

Static Water Column Height: 85.3 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.000734 cm/sec

Solution Method: Bouwer-Rice
 y0 = 1.248 ft



B-113D TEST 1 SLUG OUT

Data Set: C:\...\B-113D SLUG OUT (1).aqt

Date: 07/28/21

Time: 11:09:29

PROJECT INFORMATION

Company: Golder

Client: Southern Company

Project: 166849621

Location: McDonough

Test Well: B-113D

Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 85.3 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-113D)

Initial Displacement: -0.673 ft

Static Water Column Height: 85.3 ft

Total Well Penetration Depth: 86. ft

Screen Length: 10. ft

Casing Radius: 0.081 ft

Well Radius: 0.081 ft

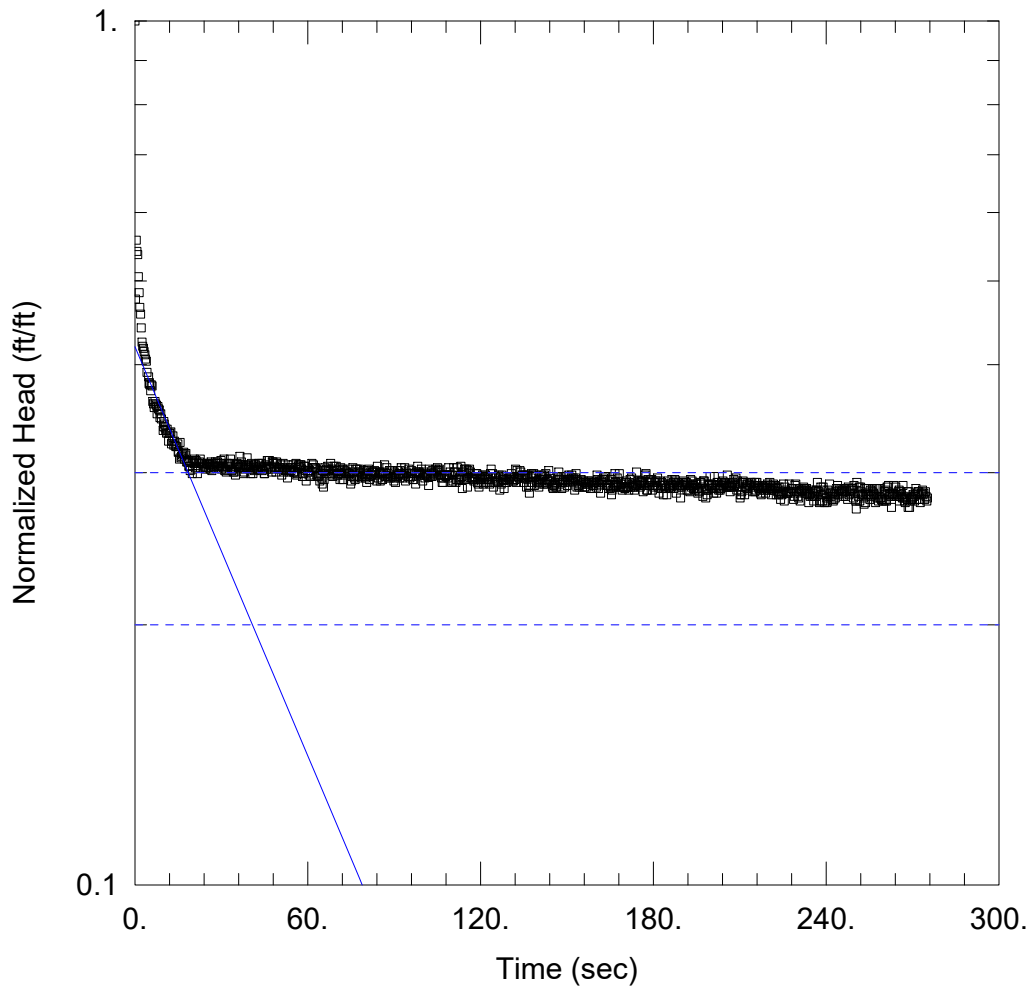
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.0001093 cm/sec

y0 = -0.67 ft



B-113D TEST 2 SLUG OUT

Data Set: C:\...\B-113D SLUG OUT (2).aqt

Date: 07/28/21

Time: 11:10:59

PROJECT INFORMATION

Company: Golder

Client: Southern Company

Project: 166849621

Location: McDonough

Test Well: B-113D

Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 85.3 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-113D)

Initial Displacement: -0.852 ft

Static Water Column Height: 85.3 ft

Total Well Penetration Depth: 86. ft

Screen Length: 10. ft

Casing Radius: 0.081 ft

Well Radius: 0.081 ft

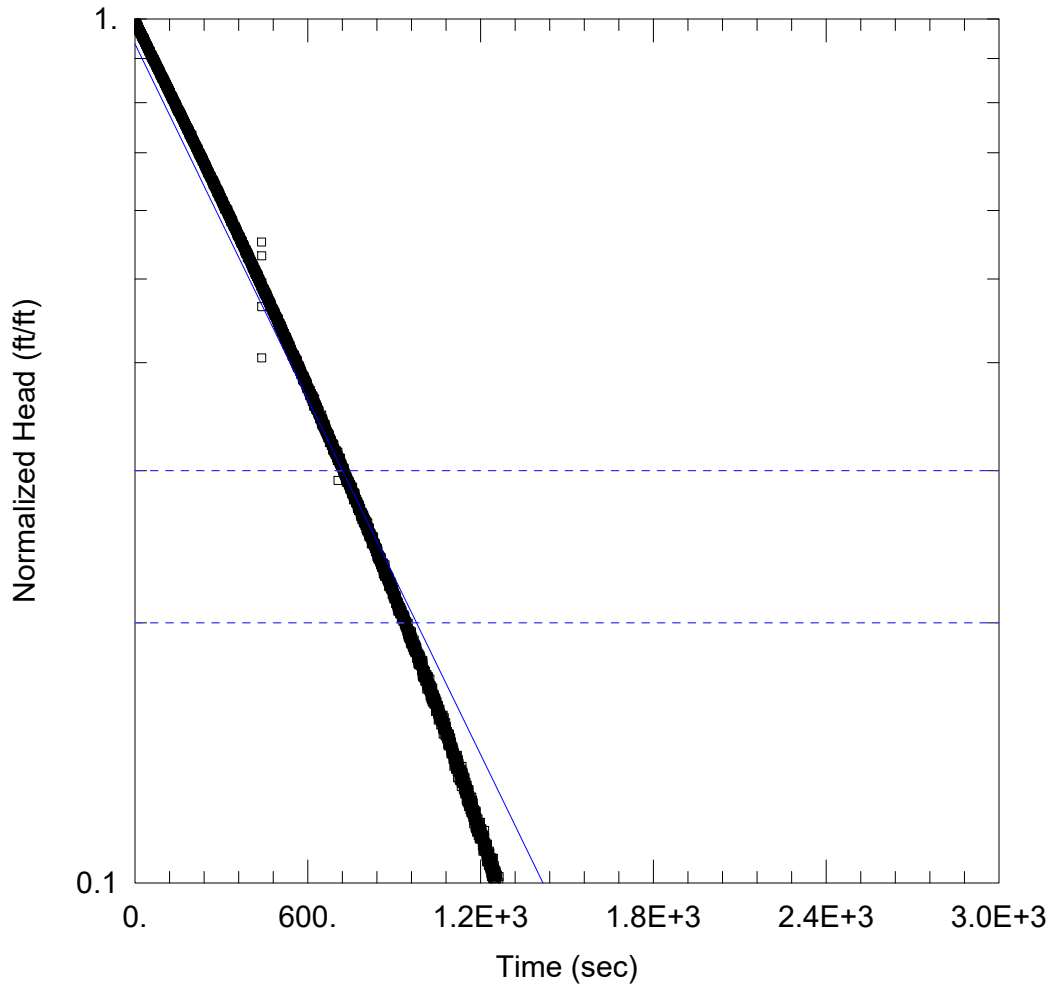
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.0007891 cm/sec

y0 = -0.3575 ft



B-115D TEST 1 SLUG IN

Data Set: C:\...\B-115D SLUG IN.aqt
 Date: 07/28/21

Time: 11:16:16

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-115D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 62.97 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-115D)

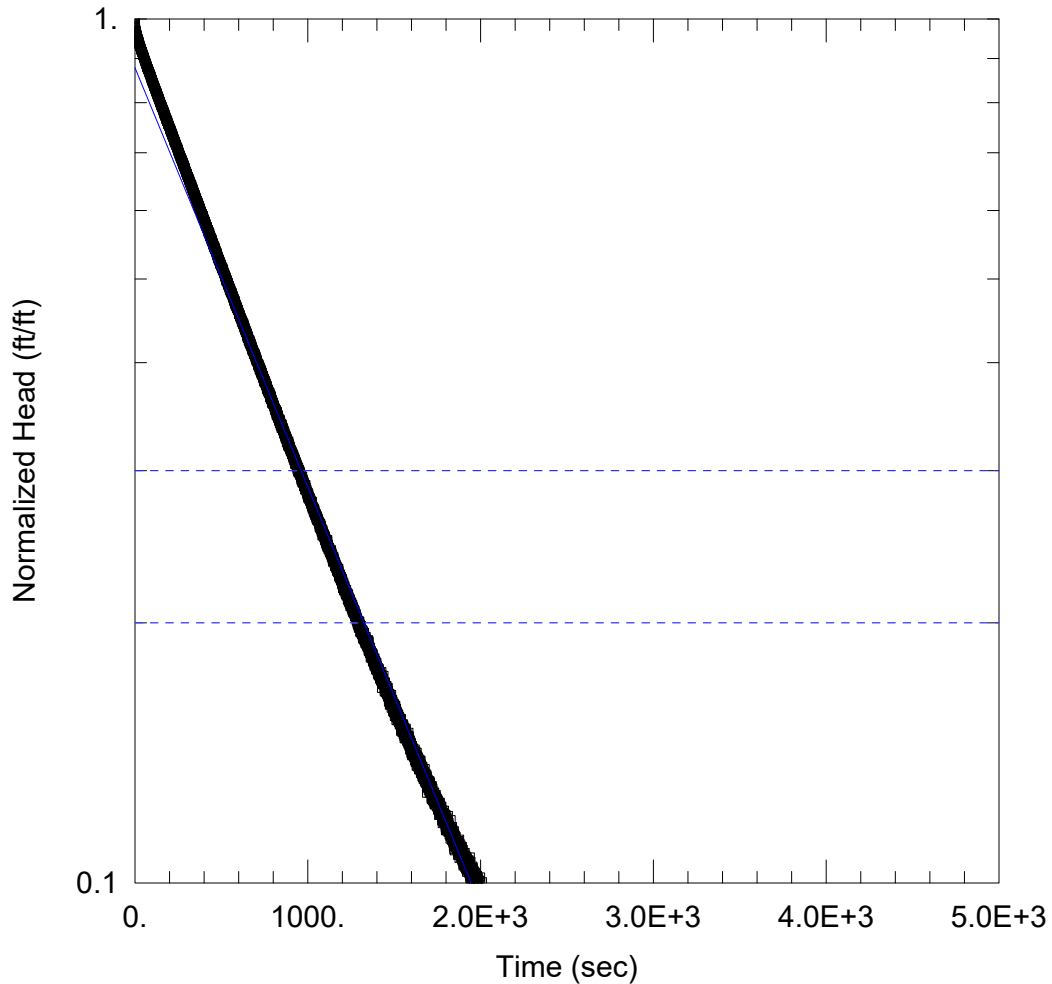
Initial Displacement: 1.957 ft
 Total Well Penetration Depth: 83. ft
 Casing Radius: 0.081 ft

Static Water Column Height: 62.97 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 6.826E-5 cm/sec

Solution Method: Bouwer-Rice
 y0 = 1.83 ft



B-115D TEST 1 SLUG OUT

Data Set: C:\...\B-115D SLUG OUT.aqt
 Date: 07/28/21

Time: 11:18:10

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-115D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 62.97 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-115D)

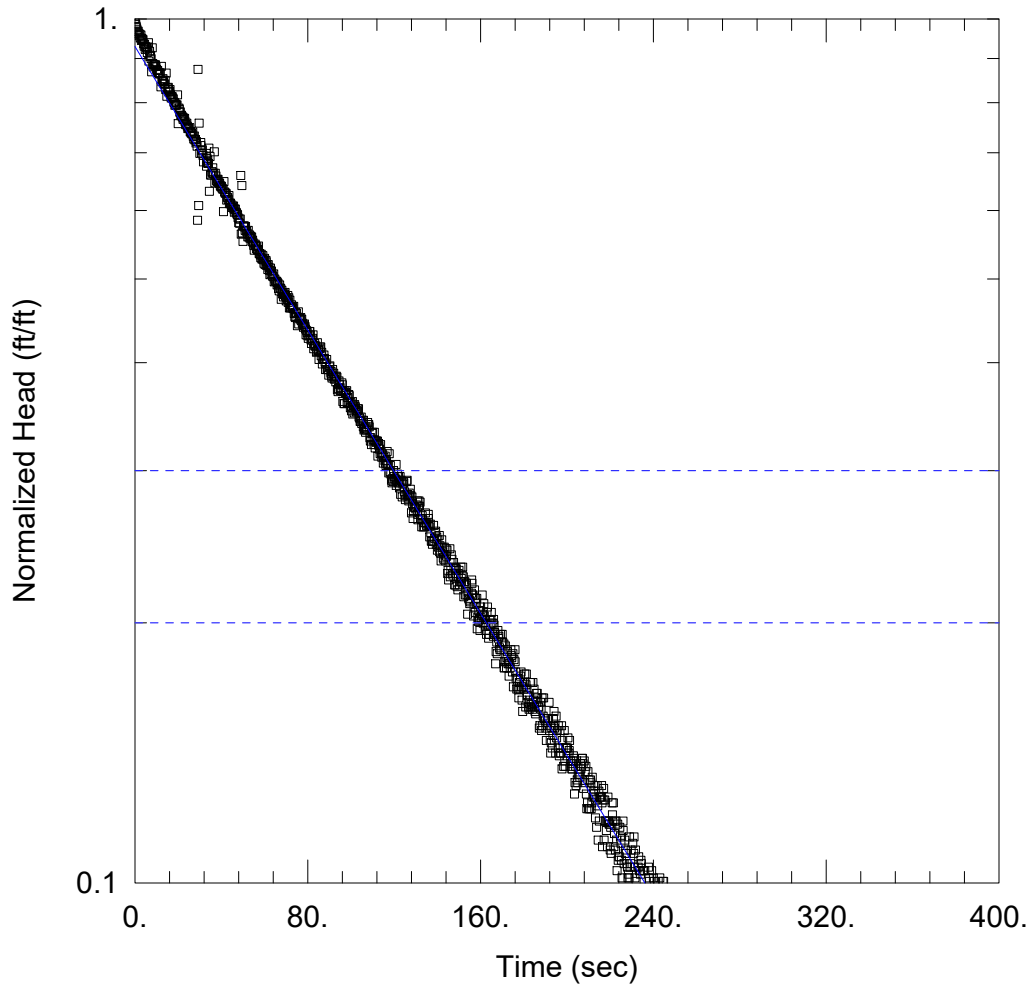
Initial Displacement: -2.323 ft
 Total Well Penetration Depth: 83. ft
 Casing Radius: 0.081 ft

Static Water Column Height: 62.97 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 4.83E-5 cm/sec

Solution Method: Bouwer-Rice
 y0 = -2.039 ft



B-116D TEST 1 SLUG IN

Data Set: C:\...\B-116D SLUG IN.aqt
 Date: 07/28/21

Time: 11:19:30

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-116D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 51.84 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-116D)

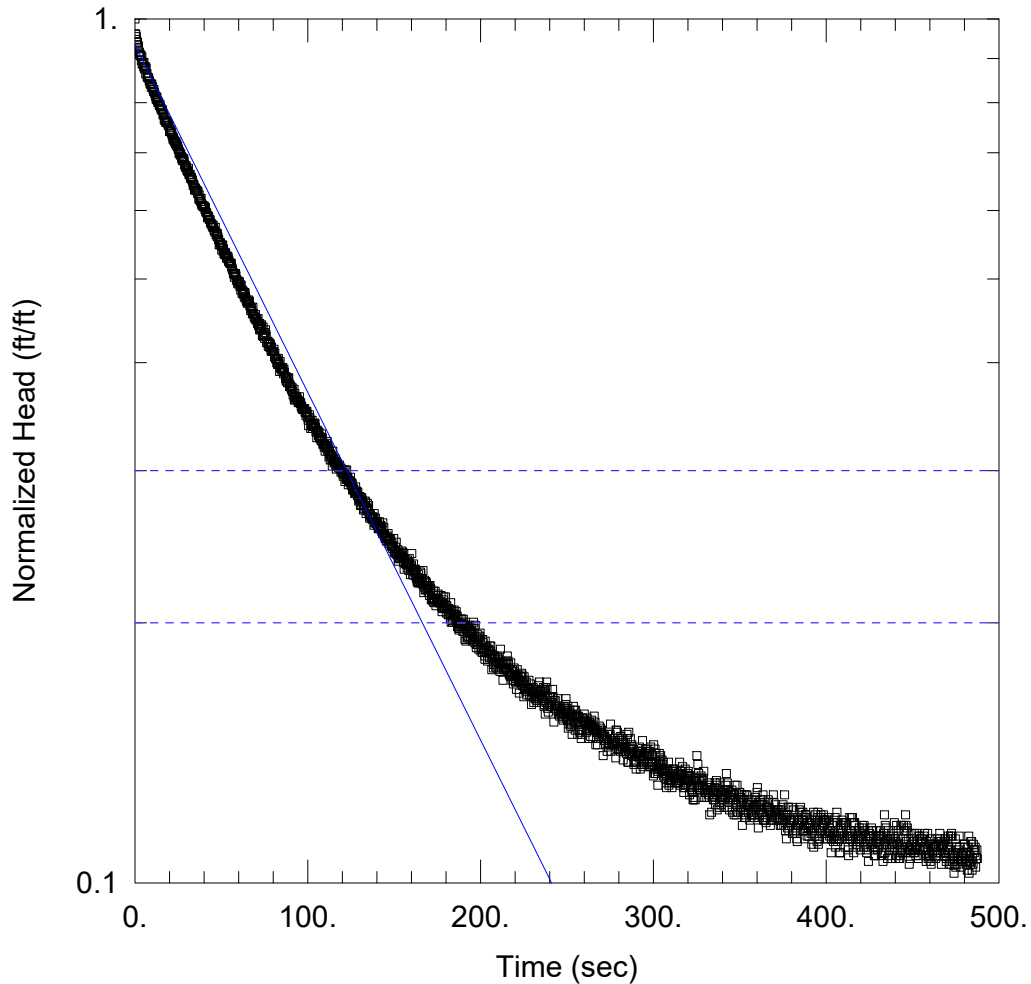
Initial Displacement: 1.026 ft
 Total Well Penetration Depth: 92.45 ft
 Casing Radius: 0.081 ft

Static Water Column Height: 51.84 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.0004135 cm/sec

Solution Method: Bouwer-Rice
 y0 = 0.9533 ft



B-116D TEST 1 SLUG OUT

Data Set: C:\...\B-116D SLUG OUT.aqt
 Date: 07/28/21

Time: 11:21:20

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-116D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 51.84 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-116D)

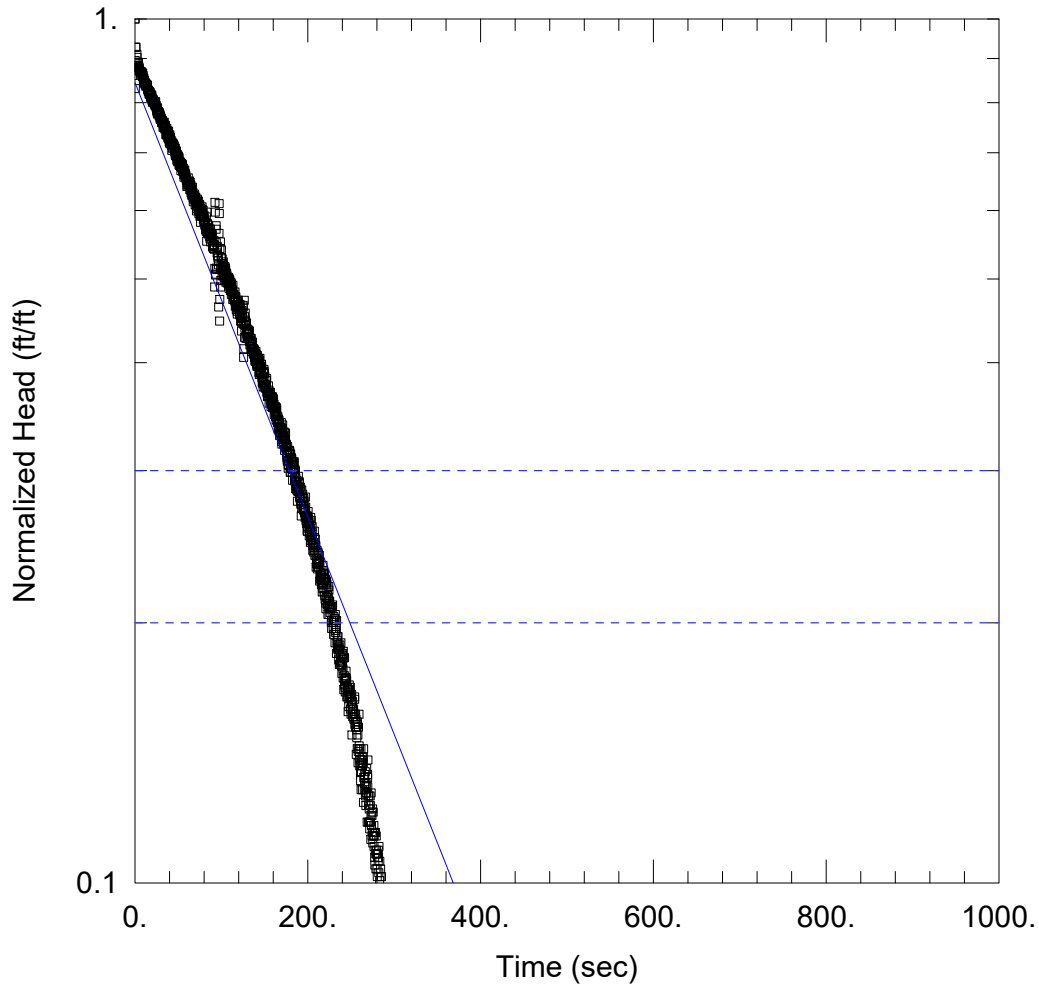
Initial Displacement: -1.218 ft
 Total Well Penetration Depth: 92.45 ft
 Casing Radius: 0.081 ft

Static Water Column Height: 51.84 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.0004057 cm/sec

Solution Method: Bouwer-Rice
 y0 = -1.137 ft



B-117D TEST 1 SLUG IN

Data Set: C:\...\B-117D SLUG IN.aqt
 Date: 07/28/21

Time: 11:23:22

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-117D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 49.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-117D)

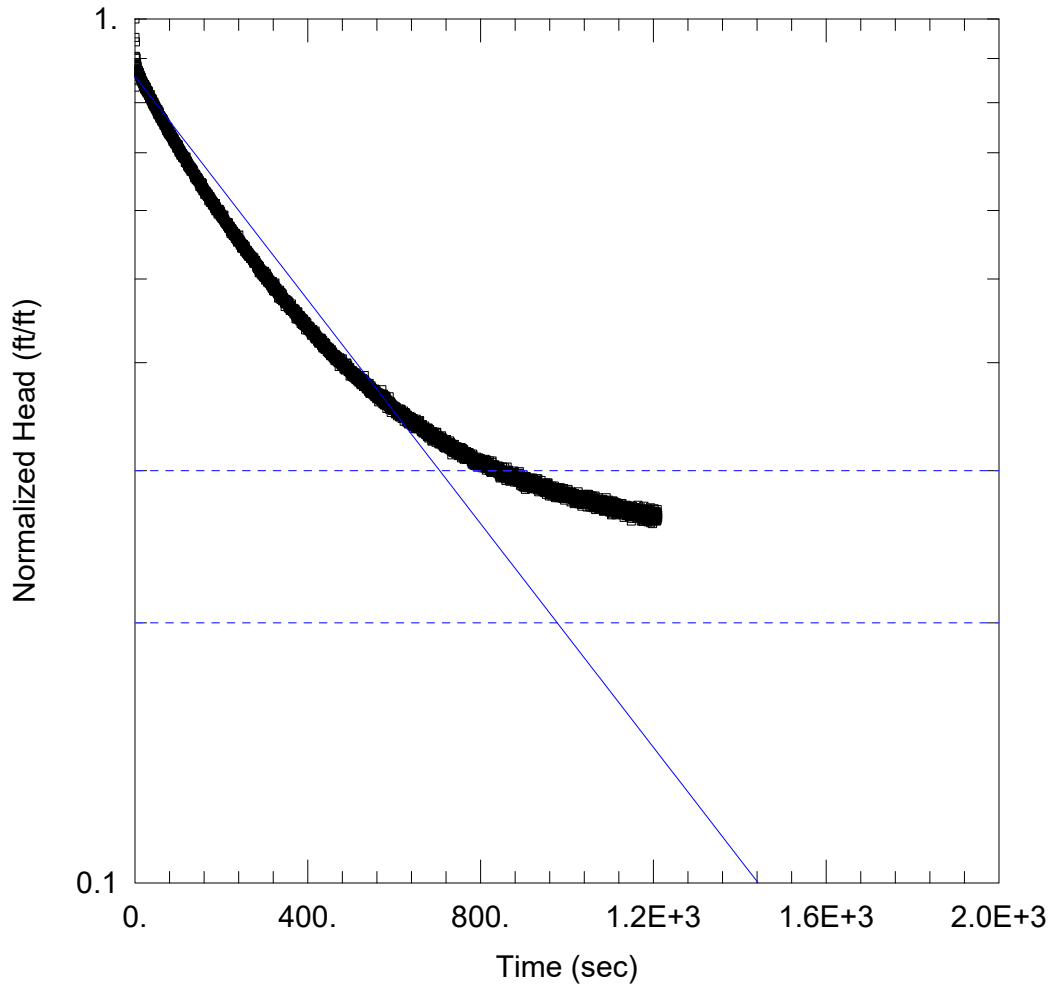
Initial Displacement: 0.944 ft
 Total Well Penetration Depth: 77.72 ft
 Casing Radius: 0.081 ft

Static Water Column Height: 49.74 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.0002485 cm/sec

Solution Method: Bouwer-Rice
 y0 = 0.7965 ft



B-117D TEST 1 SLUG OUT

Data Set: C:\...\B-117D SLUG OUT.aqt
 Date: 07/28/21

Time: 11:25:50

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-117D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 49.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-117D)

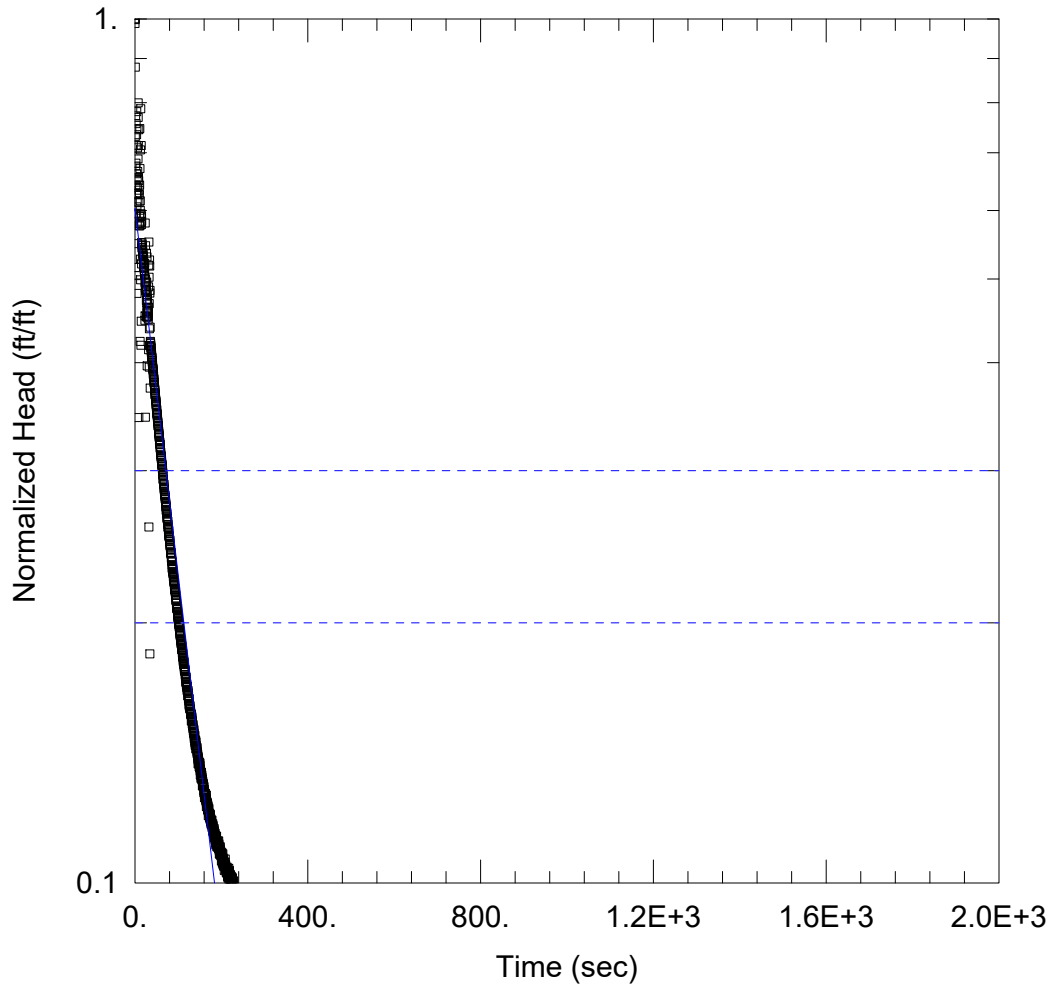
Initial Displacement: -1.601 ft
 Total Well Penetration Depth: 77.72 ft
 Casing Radius: 0.081 ft

Static Water Column Height: 49.74 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 6.397E-5 cm/sec

Solution Method: Bouwer-Rice
 y0 = -1.374 ft



B-118 TEST 1 SLUG IN

Data Set: C:\...\B-118 SLUG IN.aqt
 Date: 07/28/21

Time: 11:28:08

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-118
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 28.3 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-118)

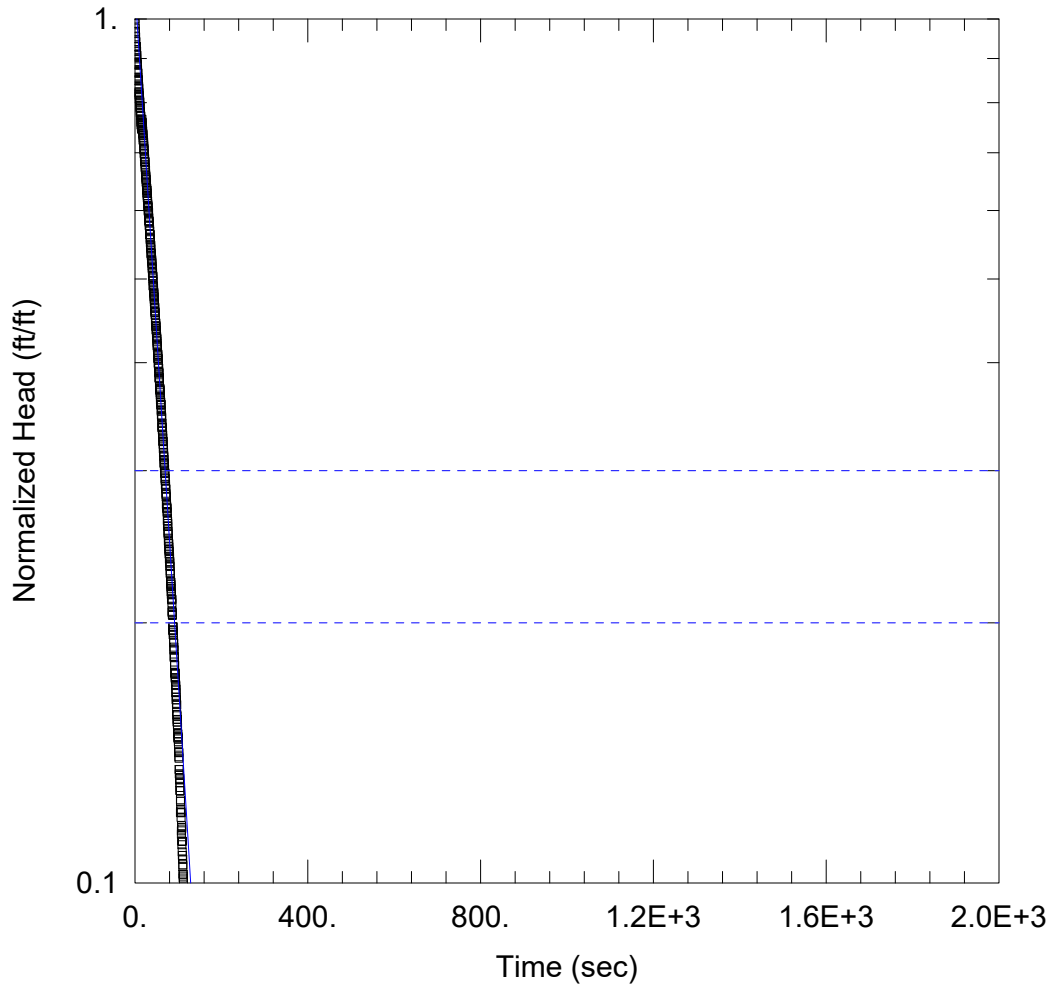
Initial Displacement: 3.443 ft
 Total Well Penetration Depth: 78.3 ft
 Casing Radius: 0.081 ft

Static Water Column Height: 28.3 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.0004195 cm/sec

Solution Method: Bouwer-Rice
 y0 = 2.078 ft



B-118 TEST 1 SLUG OUT

Data Set: C:\...\B-118 SLUG OUT.aqt
 Date: 07/28/21

Time: 11:30:24

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-118
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 28.3 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-118)

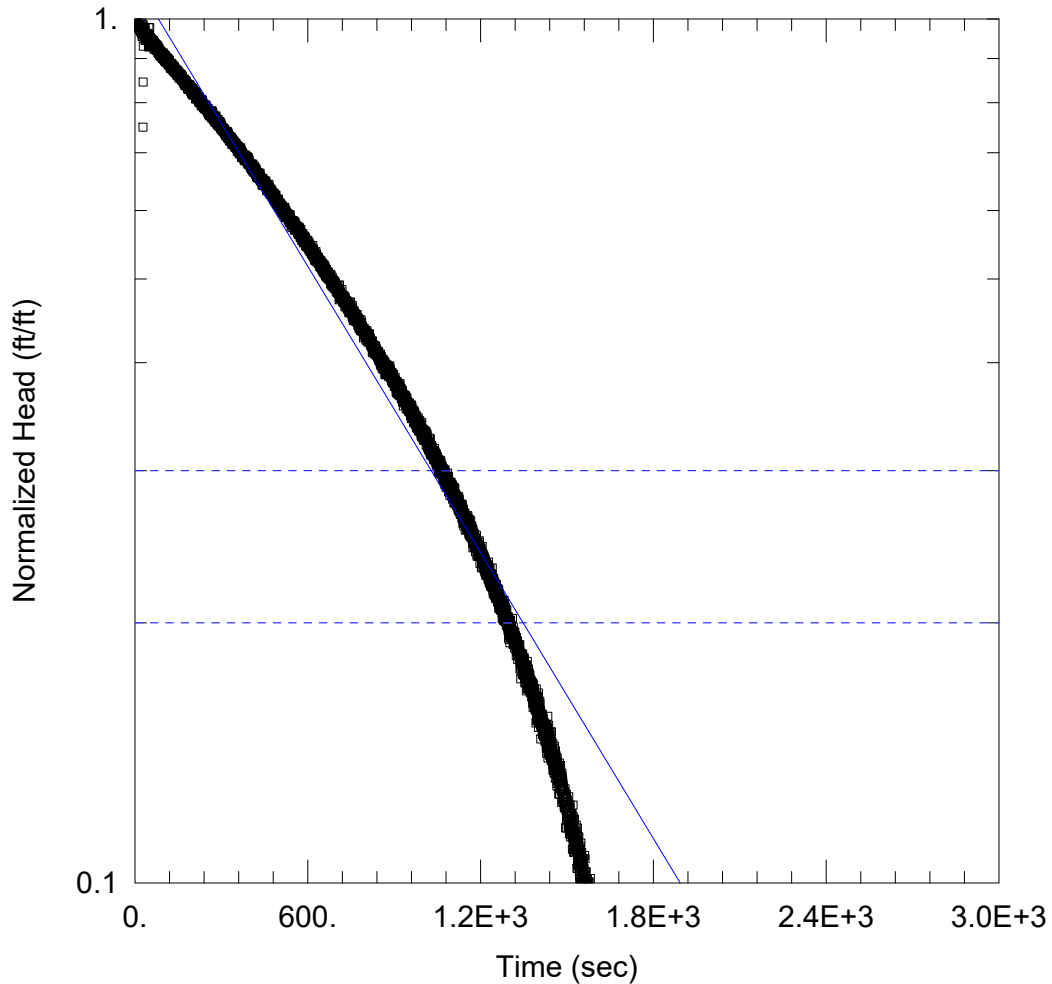
Initial Displacement: -1.915 ft
 Total Well Penetration Depth: 78.3 ft
 Casing Radius: 0.081 ft

Static Water Column Height: 28.3 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.0007961 cm/sec

Solution Method: Bouwer-Rice
 y0 = -2.093 ft



B-119D TEST 1 SLUG IN

Data Set: C:\...\B-119D SLUG IN.aqt
 Date: 07/28/21

Time: 11:34:09

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-119D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 61.12 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-119D)

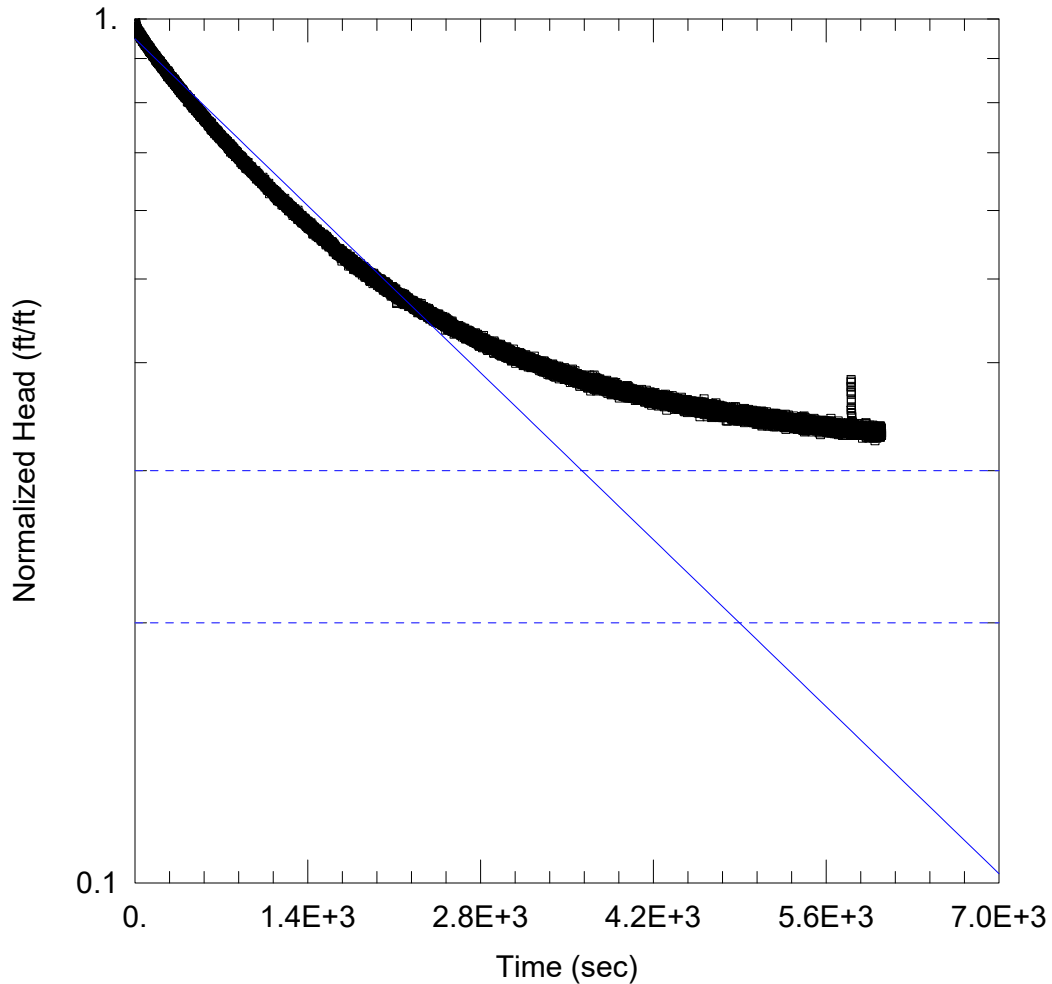
Initial Displacement: 1.097 ft
 Total Well Penetration Depth: 108. ft
 Casing Radius: 0.081 ft

Static Water Column Height: 61.12 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 5.662E-5 cm/sec

Solution Method: Bouwer-Rice
 y0 = 1.216 ft



B-119D TEST 1 SLUG OUT

Data Set: C:\...\B-119D SLUG OUT.aqt
 Date: 07/28/21

Time: 11:36:04

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-119D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 61.12 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-119D)

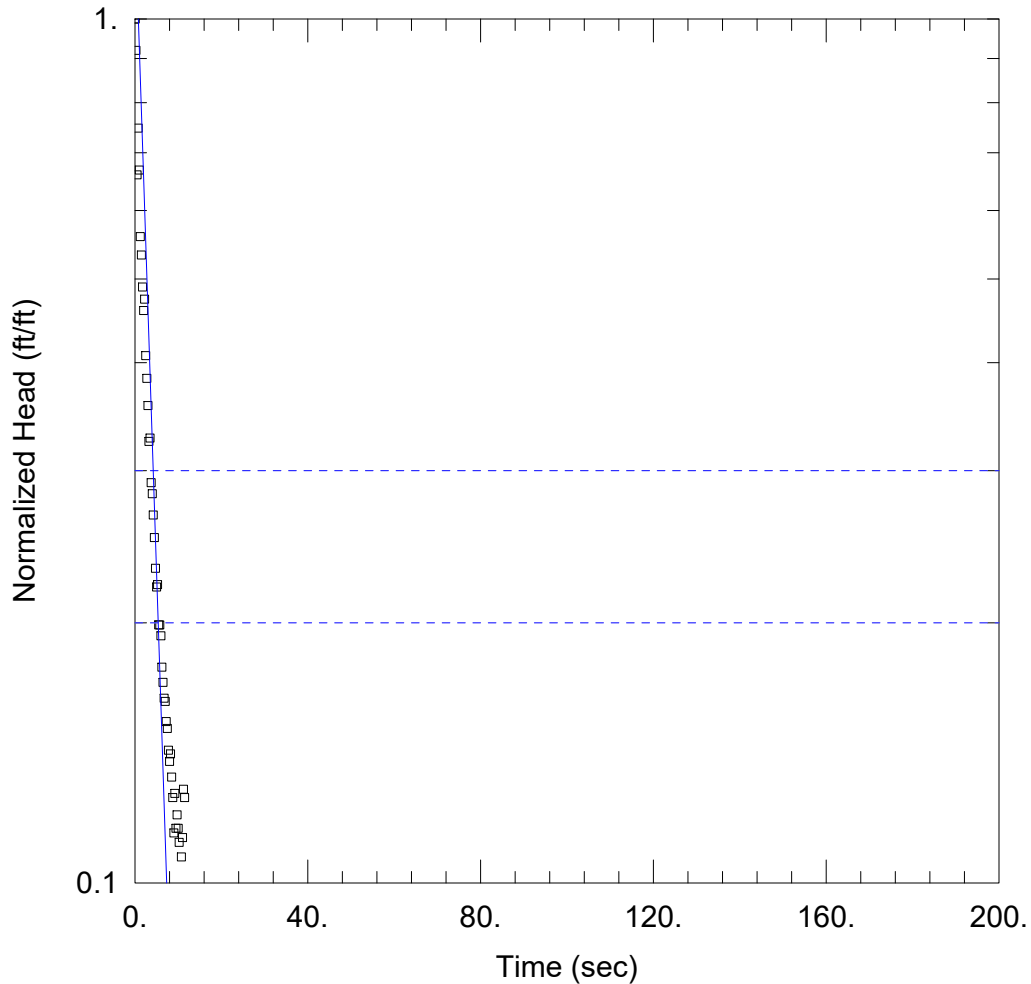
Initial Displacement: -1.302 ft
 Total Well Penetration Depth: 108. ft
 Casing Radius: 0.081 ft

Static Water Column Height: 61.12 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 1.416E-5 cm/sec

Solution Method: Bouwer-Rice
 y0 = -1.235 ft



B-120D TEST 1 SLUG IN

Data Set: C:\...\B-120D SLUG IN (1).aqt
 Date: 07/28/21

Time: 11:49:22

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-120D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 38.16 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-120D)

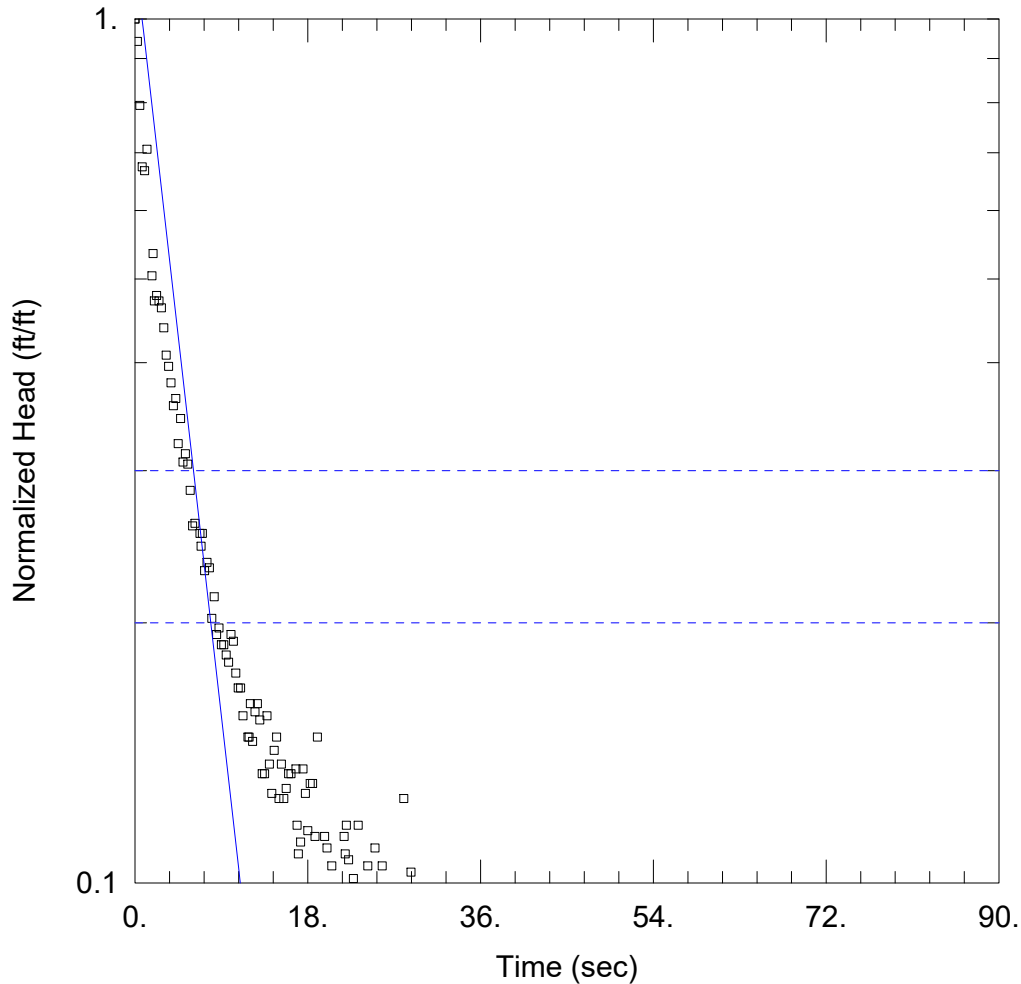
Initial Displacement: 0.709 ft
 Total Well Penetration Depth: 72.13 ft
 Casing Radius: 0.081 ft

Static Water Column Height: 38.16 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.01495 cm/sec

Solution Method: Bouwer-Rice
 y0 = 0.9366 ft



B-120D TEST 2 SLUG IN

Data Set: C:\...\B-120D SLUG IN (2).aqt
 Date: 07/28/21

Time: 11:58:08

PROJECT INFORMATION

Company: Golder
 Client: Southern Company
 Project: 166849621
 Location: McDonough
 Test Well: B-120D
 Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 38.16 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-120D)

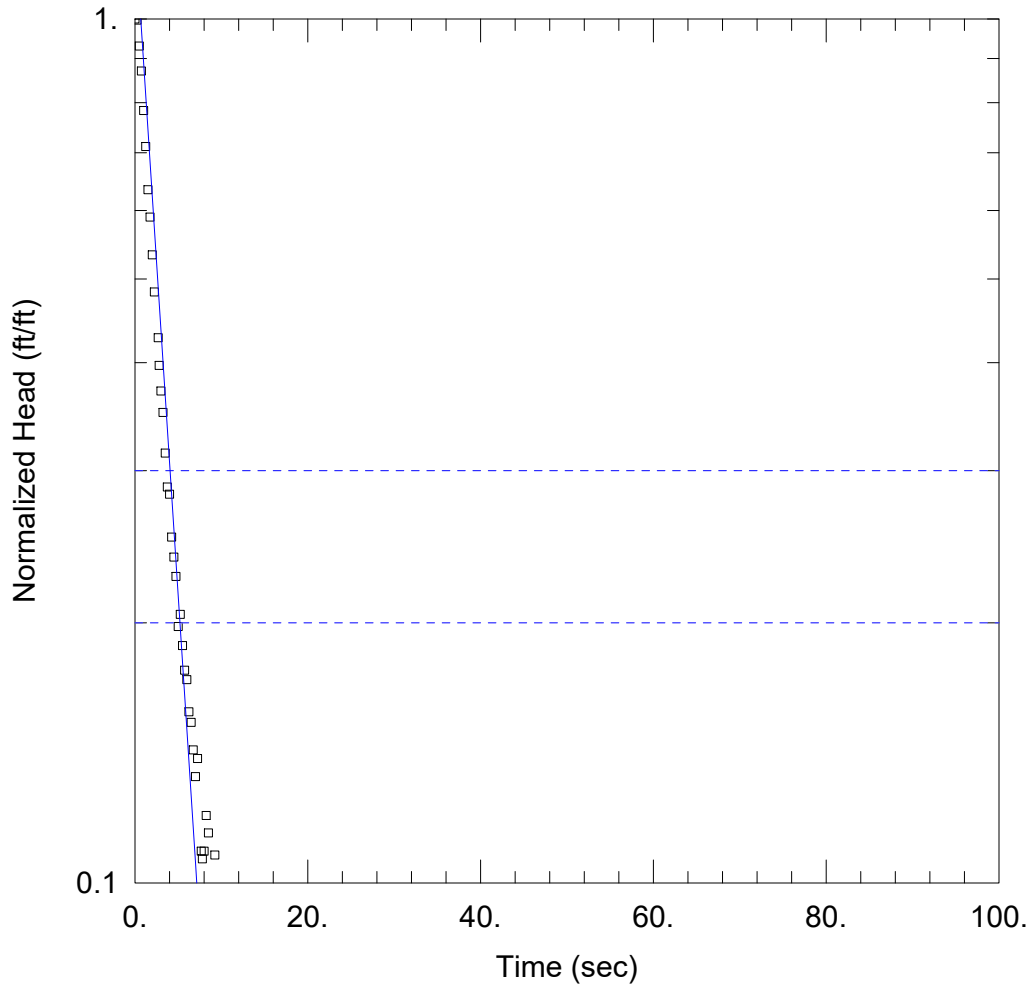
Initial Displacement: 0.583 ft
 Total Well Penetration Depth: 72.13 ft
 Casing Radius: 0.081 ft

Static Water Column Height: 38.16 ft
 Screen Length: 10. ft
 Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.009578 cm/sec

Solution Method: Bouwer-Rice
 y0 = 0.6895 ft



B-120D TEST 1 SLUG OUT

Data Set: C:\...\B-120D SLUG OUT (1).aqt

Date: 07/28/21

Time: 12:01:07

PROJECT INFORMATION

Company: Golder

Client: Southern Company

Project: 166849621

Location: McDonough

Test Well: B-120D

Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 38.16 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-120D)

Initial Displacement: -0.919 ft

Static Water Column Height: 38.16 ft

Total Well Penetration Depth: 72.13 ft

Screen Length: 10. ft

Casing Radius: 0.081 ft

Well Radius: 0.081 ft

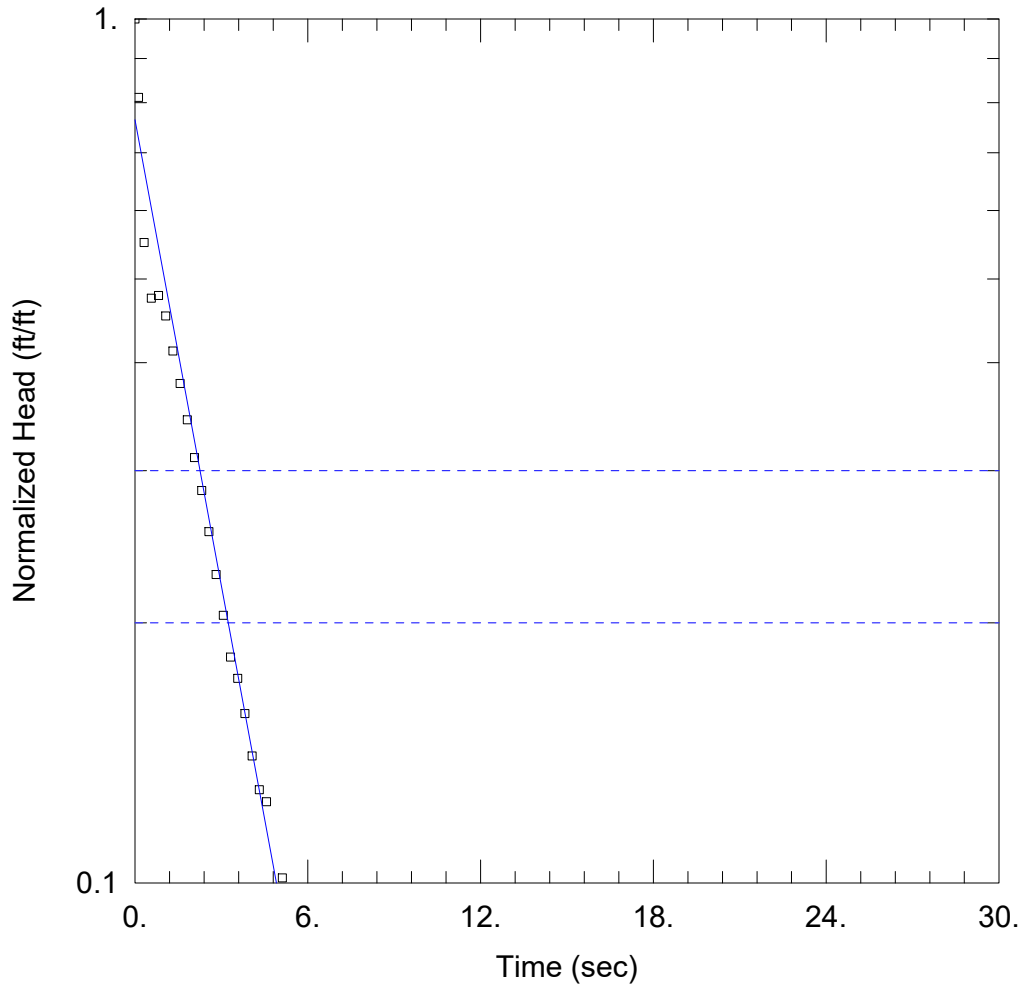
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.0151 cm/sec

y0 = -1.165 ft



B-120D TEST 2 SLUG OUT

Data Set: C:\...\B-120D SLUG OUT (2).aqt

Date: 07/28/21

Time: 12:03:40

PROJECT INFORMATION

Company: Golder

Client: Southern Company

Project: 166849621

Location: McDonough

Test Well: B-120D

Test Date: 05/2021

AQUIFER DATA

Saturated Thickness: 38.16 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (B-120D)

Initial Displacement: -1.49 ft

Static Water Column Height: 38.16 ft

Total Well Penetration Depth: 72.13 ft

Screen Length: 10. ft

Casing Radius: 0.081 ft

Well Radius: 0.081 ft

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.01762 cm/sec

y0 = -1.139 ft



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